DEPARTMENT OF THE NAVY FISCAL YEAR (FY) 2007 BUDGET ESTIMATES SUBMISSION



JUSTIFICATION OF ESTIMATES FEBRUARY 2006

OTHER PROCUREMENT, NAVY BUDGET ACTIVITY 2

UNCLASSIFIED

DEPARTMENT OF THE NAVY FY 2007 PROCUREMENT PROGRAM

ADDRODDIAMION. 1910N OMIED DECCHEMENT NAVY

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: FEBRUAR	Y 2006
--	--------

				MILLIONS OF DOLLAR	S	
LINE NO	ITEM NOMENCLATURE		ANTITY COST	FY 2006 QUANTITY COST	QUANTITY COST	
	CTIVITY 02: COMMUNICATIONS AND ELEC	TRONICS EQUIPM	1ENT			
SHIP RAI	DARS					
30 RADA	R SUPPORT	A	27.2	15.8		U
SHIP SON	NARS					
31 SPQ-9	9B RADAR	A	11.6	12.7	2.5	U
32 AN/SQ	QQ-89 SURF ASW COMBAT SYSTEM	A	16.1	34.0	37.8	U
33 SSN A	ACOUSTICS	A	229.3	231.6	284.9	U
34 UNDER	RSEA WARFARE SUPPORT EQUIPMENT	A	15.7	15.5	9.2	U
35 SONA	R SWITCHES AND TRANSDUCERS	А	13.2	12.1	12.5	U
ASW ELEC	CTRONIC EQUIPMENT					
36 SUBMA	ARINE ACOUSTIC WARFARE SYSTEM	A	20.7	25.5	20.2	U
37 SSTD		A	33.1	28.4	8.4	U
38 FIXEI	O SURVEILLANCE SYSTEM	A	54.9	64.5	60.7	U
39 SURTA	ASS	A	7.1	3.8	4.7	U
40 TACT	ICAL SUPPORT CENTER	A	5.1	5.2	5.2	U
ELECTRON	NIC WARFARE EQUIPMENT					
41 AN/SI	LQ-32	A	19.9	24.7	31.0	U
42 INFOR	RMATION WARFARE SYSTEMS	A	4.0	3.7	5.0	U
RECONNA	ISSANCE EQUIPMENT					
43 SHIPE	BOARD IW EXPLOIT	A	68.5	59.0	70.8	U
SUBMARI	NE SURVEILLANCE EQUIPMENT					
44 SUBMA	ARINE SUPPORT EQUIPMENT PROG	A	85.3	94.7	83.1	U

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EXHIBIT P-1

DEPARTMENT OF THE NAVY FY 2007 PROCUREMENT PROGRAM

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: FEBRUARY 2006

				MILLIONS OF DOLLAR	S	S
LINE NO	ITEM NOMENCLATURE	IDENT		FY 2006	FY 2007 OUANTITY COST	E
NO 	TIEM NOMENCLATORE			QUANTITY COST	~ .	-
OTHER SH	HIP ELECTRONIC EQUIPMENT					
45 NAVY	TACTICAL DATA SYSTEM	A	12.6	8.5		U
46 COOPE	ERATIVE ENGAGEMENT CAPABILITY	В	67.1	20.5	22.5	U
47 GCCS-	-M EQUIPMENT	A	61.7	85.3	52.5	U
48 NAVAI	TACTICAL COMMAND SUPPORT SYSTEM (NTCSS) A	20.1	51.0	35.3	U
49 ATDLS	3	A	2.4	13.9	12.5	U
50 MINES	SWEEPING SYSTEM REPLACEMENT	A	53.0	82.9	75.4	U
51 SHALI	LOW WATER MCM	В		2.2	8.3	U
52 NAVSI	TAR GPS RECEIVERS (SPACE)	A	11.1	14.5	13.3	U
53 ARMEI) FORCES RADIO AND TV	A	4.1	4.3	4.5	U
54 STRAT	TEGIC PLATFORM SUPPORT EQUIP	A	5.2	3.2	3.8	U
TRAINING	G EQUIPMENT					
55 OTHER	R TRAINING EQUIPMENT	A	42.1	39.2	19.8	U
AVIATION	N ELECTRONIC EQUIPMENT					
56 MATCA	ALS	A	15.9	19.3	20.3	U
57 SHIPE	BOARD AIR TRAFFIC CONTROL	В	7.1	7.2	7.5	U
58 AUTOM	MATIC CARRIER LANDING SYSTEM	A	11.3	17.2	18.0	U
59 NATIO	ONAL AIR SPACE SYSTEM	В	13.1	18.2	27.6	U
60 AIR S	STATION SUPPORT EQUIPMENT	A	3.6	3.9	4.0	U
61 MICRO	DWAVE LANDING SYSTEM	A	7.2	7.8	9.2	U
62 FACSE	FAC	A	3.7	3.6	3.8	U
63 ID SY	YSTEMS	А	18.2	24.6	28.6	U
64 TAC A	A/C MISSION PLANNING SYS(TAMPS)	А	9.0	7.8	8.3	U

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EXHIBIT P-1

UNCLASSIFIED

DEPARTMENT OF THE NAVY FY 2007 PROCUREMENT PROGRAM

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: FEBRUARY 2006

			MILLIONS OF DOLLAR	S	a
LINE NO ITEM NOMENCLATURE	IDENT CODE		FY 2006 QUANTITY COST	FY 2007 QUANTITY COST	S E C
OTHER SHORE ELECTRONIC EQUIPMENT					
65 DEPLOYABLE JOINT COMMAND AND CONT	А	34.8	27.7		U
66 COMMON IMAGERY GROUND SURFACE SYSTEMS	A	49.6	20.2	78.3	U
67 RADIAC	А	12.4	13.1	10.4	U
68 GPETE	A	8.5	8.4	7.1	U
69 INTEG COMBAT SYSTEM TEST FACILITY	A	4.6	4.3	4.3	U
70 EMI CONTROL INSTRUMENTATION	A	5.8	7.6	5.7	U
71 ITEMS LESS THAN \$5 MILLION	A	11.6	19.5	22.5	U
SHIPBOARD COMMUNICATIONS					
72 SHIPBOARD TACTICAL COMMUNICATIONS	A	14.0	2.6		U
73 PORTABLE RADIOS	A		9.9	40.5	U
74 SHIP COMMUNICATIONS AUTOMATION	A	156.9	198.6	209.1	U
75 COMMUNICATIONS ITEMS UNDER \$5M	A	13.2	15.0	12.6	U
SUBMARINE COMMUNICATIONS					
76 SUBMARINE BROADCAST SUPPORT	A	17.7	2.1	.7	U
77 SUBMARINE COMMUNICATION EQUIPMENT	A	98.1	126.7	87.9	U
SATELLITE COMMUNICATIONS					
78 SATELLITE COMMUNICATIONS SYSTEMS	A	127.9	74.4	12.3	U
SHORE COMMUNICATIONS					
79 JCS COMMUNICATIONS EQUIPMENT	А	3.0	2.9	2.8	U
80 ELECTRICAL POWER SYSTEMS	A	2.9	1.3	1.1	U
81 NSIPS	А	.3	.1		U
82 JEDMICS	A	6.4	6.8		U

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EXHIBIT P-1

UNCLASSIFIED

DEPARTMENT OF THE NAVY FY 2007 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: FEBRUARY 2006

			MILLIONS OF DOLLAR	S	C
LINE NO ITEM NOMENCLATURE	IDENT CODE		FY 2006 QUANTITY COST		S E C
83 NAVAL SHORE COMMUNICATIONS	А	60.6	58.4	50.4	U
CRYPTOGRAPHIC EQUIPMENT					
84 INFO SYSTEMS SECURITY PROGRAM (ISSP)	А	91.9	97.5	101.7	U
CRYPTOLOGIC EQUIPMENT					
85 CRYPTOLOGIC COMMUNICATIONS EQUIP	А	25.6	22.0	21.8	U
OTHER ELECTRONIC SUPPORT					
86 COAST GUARD EQUIPMENT	A	7.7	31.0	41.1	U
DRUG INTERDICTION SUPPORT					
87 OTHER DRUG INTERDICTION SUPPORT	А	.8			U
TOTAL COMMUNICATIONS AND ELECTRONICS EQUIPMENT		1,734.7	1,816.4	1,721.3	
TOTAL OTHER PROCUREMENT, NAVY		1,734.7	1,816.4	1,721.3	

PAGE N-4

Fiscal Year 2007 Budget Estimates Budget Appendix Extract Language

OTHER PROCUREMENT, NAVY

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of passenger motor vehicles for replacement only; expansion of public and private plants, including the land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, \$4,967,916,000, to remain available for obligation until September 30, 2009, of which \$23,000,000 shall be available for the Navy Reserve and Marine Corps Reserve. (10 U.S.C. 5013, 5063; Department of Defense Appropriations Act, 2006).

UNCLASSIFIED CLASSIFICATION:

		BUDGE		TIFICATION -40	SHEET			DATE:		FEBRUAR	Y 2006				
OTHER PROCUREMENT, NAVY							OMENCLATU	IRE							
BA-2 Communicat	ion & Elect	t. Equip	ment			RADAR SUPPORT / 2040									
Program Element fo	rogram Element for Code B Items:						Other Related Program Elements								
	Prior Years	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total				
QUANTITY															
COST (In Millions)	\$47.1	А	\$27.2	\$15.8	0.0	0.0	0.0	0.0	0.0	0.0	90.1				
SPARES COST (In Millions)															

PROGRAM DESCRIPTION/JUSTIFICATION:

2005 Congressional plus ups were provided for the following:

AN/SYS-2 procurement

AN/SPS-67(V)3 radar upgrade to (V)5 procurement and installation

AN/SPS-48 Radar Obsolescence Availability Recovery (ROAR)

Radar Display Repeater (AN/SPQ-25G) Technolgy Refresh

AN/SPS-73 radar ECP procurement and ECP and Radar installations

2006 Congressional plus ups were provided for the following:

AN/SYS-2(V)13 Track Management for FFG-7 Ships

AN/SPS-67 Radar Backfit Upgrades

Maritime Small Target and Threat Detector Processor

P-1 SHOPPING LIST ITEM NO. PAGE NO.

CLASSIFICATION:

DD Form 2454, JUN 86

CLASSIFICATION:		ASSIFIED											
	WEAPONS SYSTEM COST / P-5	ANALYSI	S					Weapon System		DATE: FEBRUA	ARY 2006		
APPROPRIATION/	BUDGET ACTIVITY:					ID Code	P-1 ITEM NOMEN	CLATURE/SUBHEA	ND.	SUBHEAD:			
OTHER PROCURE	MENT, NAVY						RADAR SUPPOR	T / 2040					
BA-2 COMMUNICA	TION & ELECT. EQ.									A2KG			
			TOTAL COST IN 1	THOUSANDS OF D	OLLARS								
COST	ELEMENT OF COST	ID Code		FY 2005			FY 2006			FY 2007			
CODE		Code		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		
			QTY	COST	COST	QTY	COST	COST	QTY	COST	COST		
	SURFACE SHIPS EQUIPMENT												
KG017/003/KGCA2	AN/SPS-67 BACK FIT ENGINEERING SUPPORT	A			10,212			9,300					
KG018/001/KGCA5	AN/SPS-73(V) RADAR MISC ECP PROCUREMENT				1,700								
KG002	AN/UPX-34(V) UPGRADE				0								
KGCA1	AN/SYS-2 PROCUREMENT				4,275			2,965					
KGCA3	AN/SPS-48E ROAR PROCUREMENT				6,758								
KGCA4	AN/SPG-25A TECH REFRESH				1,689								
KGCA6	MARITIME SMALL TARGET AND THREAT DETECTOR PROCESSOR							2,100					
KGCAI	INSTALLATION				2,578			1,435					
TOTAL	1				27,212			15,800			0		

DD FORM 2446, JUN 86 P-1 SHOPPING LIST ITEM NO. PAGE NO.

30 2

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMEN		TORT A	IND FLAINING		<i></i>	Weapon System		A. DATE	FEBRU/	ARY 2006	
B. APPROPRIATION/BU	-	_	ITY			IOMENCLATURE			SUBHEAD		
OTHER PROCUREMENT					RADAR SUPPOR	A2	:KG				
BA-2 COMMUNICATION	& ELI	ECT. EQ.	·	1			•				
					CONTRACT			DATE OF	SPECS	IF NO	
Cost Element/	QTY	_	LOCATION	RFP ISSUE	_	CONTRACTOR	AWARD	_	AVAILABLE		
FISCAL YEAR		COST (000)	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLI	
FISCAL YEAR (05)											
KGCA1 SYS-2 Procurement	5	855	WASH NAVY YARD		FFP	NGC, Melville NY	Apr 05	Apr 06	YES		
KGCA2 AN/SPS-67 Back Fit	12	682	WASH NAVY YARD		FFP	DRS INC, FL	Aug 05	Jan 06	YES		
KGCA3 AN/SPS-48 ROAR	N/A	N/A	WASH NAVY YARD		FFP	ITT Gilfillan	Feb 05	Jun 05	NO		
KGCA4 AN/SPG-25A Tech Refresh	N/A	N/A	WASH NAVY YARD		WX	CDSA VIRGINIA BEACH	Mar 05	Mar 05	YES		
KGCA5 AN/SPS-73 ECP PROCUREM	15	113	WASH NAVY YARD		FFP	Raytheon, RI	May 05	Sep 05	YES		
FISCAL YEAR (06)											
KGCA1 SYS-2 Procurement	5	593	WASH NAVY YARD		FFP	NGC, Melville NY	Apr 06	Apr 07	YES		
KGCA2 AN/SPS-67 Back Fit	11	845	WASH NAVY YARD		FFP	DRS INC, FL	Aug 06	Jan 07	YES		
D. REMARKS				<u> </u>	<u> </u>		<u> </u>			L	
D. ILLIWITHING											

DESCRIPTION/JUSTIFICATION: The SPS-67(V)5 backfit kits are being procurred to overcome obsolescence issues with the SPS-67(V)3 variant and to achieve commonality with the 67(V)5 radars being procurred for new construction DDGs. The 6 kits are expected to be under contract in Aug 04 with delivery in Nov 05. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2004 and Prior And Prior AND ATY ATY ATY ATY ATY ATY ATY ATY		
DESCRIPTION/JUSTIFICATION: The SPS-67(V)5 backfit kits are being procurred to overcome obsolescence issues with the SPS-67(V)3 variant and to achieve commonality with the 67(V)5 radars being procurred for new construction DDGs. The 6 kits are expected to be under contract in Aug 04 with delivery in Nov 05. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2004 and Prior PY 2005 PY 2006 PY 2007 PY 2008 PY 2009 PY 2010 PY 2010 PY 2017 P		l l
The SPS-67(V)5 backfit kits are being procurred to overcome obsolescence issues with the SPS-67(V)3 variant and to achieve commonality with the 67(V)5 radars being procurred for new construction DDGs. The 6 kits are expected to be under contract in Aug 04 with delivery in Nov 05. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2004 and Prior FY 2005 QTY \$ Q	٦	
The 6 kits are expected to be under contract in Aug 04 with delivery in Nov 05. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2004 and Prior FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 201 TC QTY \$ QT		ŀ
FY 2004		
STALLATION KITS STALLATION KITS STATE	_	-
QTY	TOTAL	
RDT&E	QTY \$	ŝ
PROCUREMENT INSTALLATION KITS INSTALLATION KITS <th< td=""><td></td><td>\dashv</td></th<>		\dashv
INSTALLATION KITS AN/SPS-67(V)5 Backfit kits 3 3.09 12 10.2 11 9.3		\dashv
AN/SPS-67(V)5 Backfit kits 3 3.09 12 10.2 11 9.3		
INSTALLATION KITS - UNIT COST	26 22.6	2.6
INSTALLATION KITS NONRECURRING		
EQUIPMENT		
EQUIPMENT NONRECURRING		
ENGINEERING CHANGE ORDERS		
DATA		
TRAINING EQUIPMENT		
SUPPORT EQUIPMENT		
OTHER - spare antenna groups 2 0.756	2 0.8	.8
OTHER - interim training 0.104	0 0.1	.1
INSTALL COST 3 0.300 12 0.9 11 0.9	26 2.1	.1
TOTAL PROGRAM COST 4.250 11.100 10.2 P-1 SHOPPING LIST CLASSIFICATION:		5.6

P-1 SHOPPING LIST

UNCLASSIFIED

PAGE NO. 30 ITEM NO.

INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: MA																						ı	SIFIED	CLASSIFICATION: UNCLASS
INSTALLATION INFORMATION:				′ 2006	RUAR	FEB										ntinued)	ON (Co	DIFICATION	AL MO	NDIVIDU			SIFIED	CLASSIFICATION: UNCLASS
METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: CONTRACT DATES: FY 2005: DELIVERY DATE: FY 2006: Cost: Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Later TOWN SOLVEN SOLVE				_											≣:	ION TITLE	IFICAT	MOD			S <u>PS 67</u>	: _AN/S	ECTED	MODELS OF SYSTEMS AFFE
ADMINISTRATIVE LEADTIME:)	ΓΕΑΜ (AIT	TION .	ISTALLA	TION IN	ALTERA		
NA NA NA NA NA NA NA NA											4S	MONTH	15 N			ADTIME	CION I !	PRODUC:	-					
DELIVERY DATE: FY 2006: NA								NA							_						_	:005:		
Cost:						_													<u>-</u>			:006:	FY 2	DELIVERY DATE:
Cost:														ne)	n Millio	(\$ ir								
PRIOR YEARS 3 \$0.300	otal	Т	ater	L			2011	FY	010	FY 2)	Y 2009	F				FY	Y 2006	F	/ 2005	F	or Years	Pri	Cost:
FY 2005 EQUIPMENT 12 0.900 12 FY 2006 EQUIPMENT 11 0.900 11 FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2009 EQUIPMENT FY 2010 EQUIPMENT FY 2011 EQUIPMENT	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	(\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	
FY 2006 EQUIPMENT FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2009 EQUIPMENT FY 2010 EQUIPMENT FY 2011 EQUIPMENT	0.3	3																\$0.300	3					PRIOR YEARS
FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2010 EQUIPMENT FY 2011 EQUIPMENT	0.9	12														0.900	12							FY 2005 EQUIPMENT
FY 2008 EQUIPMENT FY 2010 EQUIPMENT FY 2011 EQUIPMENT	0.9	11												0.900	11									FY 2006 EQUIPMENT
FY 2009 EQUIPMENT FY 2010 EQUIPMENT FY 2011 EQUIPMENT																								FY 2007 EQUIPMENT
FY 2010 EQUIPMENT FY 2011 EQUIPMENT																								FY 2008 EQUIPMENT
FY 2011 EQUIPMENT																								FY 2009 EQUIPMENT
								$\sqcup \downarrow$																FY 2010 EQUIPMENT
																								FY 2011 EQUIPMENT
10 00mi EE1E					ı																			TO COMPLETE
INSTALLATION SCHEDULE: SHIP AVAILABILITIES FY 2003				26 26		0 0	0	0	3 4 0 0	0	0	4	3	1 2	4	2 3 3 4	1	3 4 1 2	0	4 1 0 0	2 <u>005</u> 3 0	1 2 0	3	FY 2003 & Prior In

DD Form 2454, JUN 86

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION P-40	ON SHE	ET						DATE: FEBRUAR	Y 2006							
APPROPRIATION/BUDGET ACTIVE Other Procurement, Navy	•								P-1 ITEM NOMENCLATURE							
BA-2 COMMUNICATIONS & E	LECTR	ONICS EQ	UIPMENT			SPQ-9B RAI	DAR L	J 202600								
Program Element for Code B Items	s:					Other Related	d Program Ele	ments								
	ID Code	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total					
QUANTITY (2026/Total)		8	0	0	0	2	2	1	1	0	14					
COST (In Millions)	А	\$19.3	\$11.6	\$12.7	\$2.5	\$14.6	\$15.4	\$15.7	\$16.0	CONT	CONT					
SPARES COST (In Millions)		\$1.4	\$3.4	\$0.4	\$0.7	\$0.4	\$0.4	\$0.4	\$0.1	CONT	\$5.8					
EMERGENCY RESPONSE FUND (In Millions)																

PROGRAM DESCRIPTION/JUSTIFICATION: This program provides for procurement of AN/SPQ-9B Radars whose primary mission is to detect and track low flying Anti Ship Missile targets in heavy clutter.

BRCA1, BRCA2 & BR040 AN/SPQ-9B Radar - Procures AN/SPQ-9B Radars, Transmitter Upgrades (TUP), and components necessary to add Anti-Ship Missile Defense (ASMD) capability by increasing the radar's capability to detect and track low-flying, very small cross-section targets in natural and man-made clutter. Total inventory objective is 125 in the following ship classes: CG-47, DDG-51, CVN, LHD, LPD, U.S. Coast Guard NSC, including a Training Unit and Land Based Test Site (LBTS). A total of 111 radars will be procured by the Coast Guard, Cruiser Modernization or with SCN. Fourteen radars are being procured under this line item.

BR042 AN/SPQ-9B Engineering Change Proposals (ECPs) - Procures product improvements generated by ECPs; corrects problems reported by fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production for AN/SPQ-9B Radar.

BR830 AN/SPQ-9B Production Support - Supports the AN/SPQ-9B Radar program In-Service Engineering Agent (ISEA), Software Support Activity (SSA), Integrated Logistics Agent (ILA), Acquisition Engineering Agent (AEA), and Technical Design Agent (TDA) efforts.

BR5IN/BR6IN - Installation of Equipments - Provides funding to install ORDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP).

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 31

PAGE NO. 1

UNCLASSIFIED

CLASSIF	FICATION: UNCLAS												
	WEAPONS SYSTEM COST ANA	ALYSIS							DATE:				
	P-5									RY 2006			
	PRIATION/BUDGET ACTIVITY			P-1 ITEM NOM	ENCLATURE				SUBHEAD				
	Procurement, Navy/												
BA-2 C	OMMUNICATIONS & ELECTRONICS EQU				DAR - 202600				A2BR				
		TOTAL	COST IN THOUSANDS	OF DOLLARS									
COST	ELEMENT OF COST	ID		FY 2005	1		FY 2006		1	FY 2007			
CODE	ELLIVIENT OF COOT	Code		1 1 2005			1 1 2000			1 1 2007			
			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	EQUIPMENT			2 222	2 222			0					
	AN/SPQ-9B Radar Components	A		3,000 1,250	3,000 5,000	4	4 000	1 000					
BRCA2 BRCA3	AN/SPQ-9B Transmitter Upgprade SPA-25G Radar Display		4	1,250	5,000	Ī	1,800	1,800 5,100			'		
BR040	AN/SPQ-9B Radar, Transmitter Upgrades, and	A			0			5,100					
DITOTO	Components	^			J			O			,		
BR042	Engineering Change Proposals (ECPs)	Α			243			832			460		
BR830	AN/SPQ-9B Production Support	Α			600			1,470			73		
	INSTALL												
BR5IN	Installation of Eqmt FMP	Α			2,707			3,533			1,297		
BR6IN	Installation of Eqmt NON FMP	Α											
}					11,550			12,735			2 40		
DD 500	M 2446. JUN 86		P-1 SHOPPING	N. LIOT	11,550			CLASSIFICATI			2,494		

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

CLASSIFICATION: UNCLASSIFIED

DD Form 2446-1, JUL 87

BUDGET PROCUREME	NT HISTO	RY AND P	LANNING EXHI	BIT (P-5A)		Weapon System		A. DATE		
								F	EBRUARY 2	2006
3. APPROPRIATION/BUDGET A					C. P-1 ITEM NOM	MENCLATURE			SUBHEAD	
Other Procurement, N	•									
BA-2 COMMUNICATION	ONS & EL	ECTRON	ICS EQUIPME	NT		NDAR - 202600			A2BR	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FISCAL YEAR (05)										
BRCA2 Transmitter	4	1,250	NAVSEA	May-05	SS/FFP	NORTHROP GRUMMAN	Jul-05	Oct-06	YES	
Upgrades						ELECTRONIC SYSTEMS, INC.				
						MELVILLE, NY				
BRCA1 SPQ-9B Components	Misc	3,000	NAVSEA	May-05	SS/FFP	NORTHROP GRUMMAN	Jul-05	Oct-06	YES	
						ELECTRONIC SYSTEMS, INC.				
						MELVILLE, NY				
						ISEA/Pt. Hueneme				
FISCAL YEAR (06)										
BRCA2 Transmitter	1	1,800	NAVSEA	May-06	SS/FFP	NORTHROP GRUMMAN	Jul-06	Oct-07	YES	
Upgrades						ELECTRONIC SYSTEMS, INC.				
						MELVILLE, NY				
Production break risks in FY 05	, FY 06, and	FY 07 are mit	igated by SCN proci	urements and Congr	essional Adds.					

P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 31 PAGE NO. 3

CLASSIFICATION: UNCLASSIFIED

P3A		INDIVIDUAL MODIFICATION															FEBF	RUARY	2006	6
MODELS OF SYSTEM AFFECTED:	AN/SPQ-9B	Radar			TYPE	MODIF	FICAT	ION:	N/A			•	MOD	IFICATION	ON TI	TLE:	AN/S	SPQ-9B	Radar	
DESCRIPTION/JUSTIFICATION:																				
Adds Anti-Ship Missile Defense mode: det	ects and trac	ks low-flying	g, extre	emely sn	nall rac	dar cros	s-secti	ion targe	ts in cl	utter.										
Note: FY04 and Prior Years include OPN	BLI 5110																			
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT M	ILESTONES	3:	MS II 10)/94; C	A 10/94	4; CDF	R 7/95; L	BTS D	T 10/98;	DT/C	T FY03	FRP	FY04			_			
	FY 2004 &		FY	2005		2006		2007		2008		2009		2010		Y2011		<u>TC</u>		OTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
RDT&E		81.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	81.9
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	8	55.4	*	8.0		1.8			2	12.9	2	12.9	1	6.7	1	6.7	0	0.0	14	102.6
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS		13.5		0.2		0.8		0.5		0.6		0.4		0.9		0.4			0	17.4
DATA																				
TRAINING EQUIPMENT		9.7																	0	9.7
SUPPORT EQUIPMENT		8.5																	0	8.5
OTHER (PRODUCTION SUPPORT)		8.6		0.6		1.5		0.7		1.1		0.8		1.9		1.3			0	16.5
OTHER (CSS)		1.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0			0	1.6
OTHER (NON FMP)		1.4																	0	1.4
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	6	3.1	1	2.7	1	3.6	1	1.3	0	0.0	1	1.3	1	6.2	3	7.6			14	25.8
TOTAL PROCUREMENT		101.8		11.5 HOPPING		7.7		2.5 ITEM		14.6	AGE	15.4		15.7		16.0 CLASS				185.3

^{*}FY05 funds procure 4 Transmitter Upgrade kits and some radar long lead components.

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P3A (Continued)			IND	IVIDUAL	MODIFIC	ATION (Co	ntinued)															
MODELS OF SYSTEMS AFFECTED:		_A	N/SPQ-9B			MOD	IFICATION	ON TITLE:		AN/SI	Q-9B												
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION:		Alteration	on Installati	ion Team	(AIT)																		
ADMINISTRATIVE LEADTIME: CONTRACT DATES: DELIVERY DATE:			_			PRODUCT FY 2005 FY 2005	TION LE	Ma	rch 2005 ober 2006		5-18 Moi	nths	FY 2			N/A			FY 2007 FY 2007		N/A		
									\$ in Millio													1	
Cost:	Prior Qty	Years \$	Qty	2005	Qty	Y 2006 \$	Qty	FY 2007 \$	Qty	Y 2008 \$		FY 20	909 \$	Qty	['] 2010 \$	Qty	Y 2011 \$	To Cor Qty	nplete \$	To Qty	tal \$		
	Qiy	, p	Qty	•	Qiy	•	Qty	•	Qiy	•	u	ıy	ð	Qty	a a	Qty	a a	Qiy	a a	Qty	.		
PRIOR YEARS	6	3.1	1	2.7	AP	0.2	1	1	.3											8	7.3		
FY 2004 EQUIPMENT					1	3.3														1	3.4		
FY 2005 EQUIPMENT																							
FY 2006 EQUIPMENT																							
FY 2007 EQUIPMENT																							
FY 2008 EQUIPMENT											AP		1.2	1	3.7	1	2.5			2	7.4		
FY 2009 EQUIPMENT														AP	2.5	2	4.7			1	7.2		
FY 2010 EQUIPMENT																AP	0.4				0.4		
FY 2011 EQUIPMENT																		1	3.5	1	3.5		
TO COMPLETE																							
INSTALLATION SCHEDULE:																							
		1	FY 2005		FY 20			FY 2007			FY 2008	_		FY 20			FY 2010		FY	<u> 2011</u>		<u>TC</u>	
	_	1 2		4 1	2	3 4	1	2 3	4	1	2 3		- I		3 4	1	2 3	4	1 2		4		TOTAL
	In Out	0 1		0 0	1	0 0	0	1 0		11	0 0			0	0 0	0	1 0	0	0 3	0	0	1	14
	Out	0 1	1 0	0 0	1	0 0	0	1 0	0	0	0 0	0	0	0	0 0	0	1 0	0	0 3	0	0	1	14
AP is advanced planning for i	nstallation	, including	g DSA and	procurem	ent of lo	ng lead ite	ms.												P-3A				

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		BUDGI	ET ITEM JUSTIFICA	ATION SHEE	T			DATE:			
			P-40						FEBRU/	ARY 2006	
APPROPRIATION/B	SUDGET ACTIVIT	Y				P-1 ITEM NOM	IENCLATURE				
OTHER PROCUI	REMENT, NAV	Y BA-02				AN/	SQQ-89(V) S	urface ASW (Combat Syst	em / BLI 2136	600/5
Program Element for	r Code B Items:					Other Related F	Program Eleme	nts			
						Surface ASV	N Combat S	ystem Integra	tion/PE 020	5620N	
	FY 2004 and Prior	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total
QUANTITY											
COST (In Millions)	\$979.1		\$16.1	\$34.0	\$37.8	\$37.5	\$99.1	\$93.5	\$106.6	CONT.	\$1,403.7
SPARES COST (In Millions)	\$31.9		\$0.0	\$0.3	\$0.1	\$0.5	\$0.6	\$0.6	\$0.5	CONT.	\$34.5

Program Overview: The AN/SQQ-89 is a fully integrated surface ship Undersea Warfare (USW) combat system with capability to detect, classify, localize and attack submarine targets. The AN/SQQ-89(V) is the USW Combat System for new construction DDG51 class ships, for backfit on DDG51 class ships, and for backfit on CG47 class ships as part of the Cruiser Modernization program. The AN/SQQ-89(V) configuration will vary based upon ship class, system production configuration, and pre-backfit configuration of each ship. This budget supports modernization of existing AN/SQQ-89(V) systems, including the incorporation of the major AN/SQQ-89A(V)15 upgrade, as well as adjunct ASW warfighting improvements such as the Improved Performance Sonar (IPS) and Scaled Improved Performance Sonar (SIPS).

AN/SQQ-89A(V)15 - Cost Codes DB400/830/900/984: The AN/SQQ-89A(V)15 backfit upgrade, developed under RDT&E PE 0205620N, capitalizes on both the AN/SQQ-89(V)15 forward fit and CG Modernization backfit program investments. It will reconstitute/integrate onto DDG51 Class FLT IIA (DDG79 and onward) ships (IOC in FY08) a tactical towed array sensor (Multi-Function Towed Array) while replacing legacy, standard militarized legacy components with Commercial-Off-The-Shelf (COTS) hardware to provide a USW combat system with the capability for mid-frequency bistatic and multi-static sonar operations. The AN/SQQ-89A(V)15 features a mid frequency bistatic hull/towed Sonar Echo Tracker Classifier, hull/towed Sonar with Acoustic Intercept (ACI) fused data for improved torpedo defense, passive towed array processing, common Sub/Surface sensor performance and prediction, common NAVAIR/Surface LAMPS processing, portable software, and integrated supportability and on-line training. The AN/SQQ-89A(V)15 supports multiple AEGIS Weapon Systems (AWS), is Open Architecture (OA) compliant (meeting OA Level 3 requirements), provides significant reductions in weight, space, cooling, and power requirements over legacy systems, is Grade "A" Shock qualified, supports Digital Fire Control Integration (DFCI) Capability, and is integrated with the Battle Force Tactical Trainer (BFTT).

<u>SIPS - Cost Codes DB200/300/400/600/700/830/984</u>: The Scaled Improved Performance Sonar (SIPS) adjunct upgrade on CG47, DDG51 and FFG7 class ships will provide quick, affordable and measurable near term active and passive performance enhancements via SHIPALT to the existing legacy AN/SQQ-89(V) Surface USW Combat System. Active and passive improvements include critical improvements to torpedo defense warfighting capabilities (classification and alertment), reduction in high false contact rates and clutter thereby improving USW ability to correctly classify torpedoes, active improvements in operator/tactical employment proficiency, new active waveforms to improve littoral capability, and passive improvements in signal processing and operator displays. Technology insertion items include Mid-Frequency Active (Includes A4I Capability Using Advanced Beamformer), Torpedo Detection, Classification, Localization (TDCL), Towed Sensor Passive Processing, Hull and Towed Sensor Beamformer Processing, Integrated System Services, Rapid Supportability Insertion, and Sensor Data Recorder.

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BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40		FEBRUARY 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	•
OTHER PROCUREMENT, NAVY BA-02	AN/SQQ-89(V) S	urface ASW Combat System / BLI 213600/5

IPS Congressional Add - Cost Code DBCA1: FY 2005/2006 budget includes Congressional Adds for 'AN/SQQ-89 Modernization' and 'Improved Performance Sonar' under Cost Code DBCA1. Urgency in improving ASW capabilities is a top priority to support CNO's Task Force ASW and Sea Power 21 Sea Trial efforts. Priorities include commonality across Surface Undersea Warfare Combat Systems. The Improved Performance Sonar (IPS) system provides technology refresh and insertion test platforms for new and innovative USW warfighting capabilities to be considered for future integration into deployed systems. The IPS transition process is a structured, spiral, verifiable means for rapidly identifying "Mission Module" enhancements, integrating those Mission Modules for at-sea testing as part of an IPS "Mission Package," and validating the performance and architectural maturity/compliance through a streamlined Government Acceptance Testing process. Once certified, the USW Mission Packages become part of a common IPS Mission Package Superset Baseline available for tailoring and transition to the various sea frame production programs. This multi-community transition path between the developers and the sea frames (and, ultimately, the warfighters) enables a USW technology transition paradigm wherein common warfighting improvements are developed once, paid for once, and used many times. Funding in FY 2005/2006 will continue the successful IPS Commonality initiatives by expanding the capabilities of the IPS systems on board USS John S McCain (DDG56) and USS Paul Hamilton (DDG60).

Surface Ship ASW Warfighting Improvements - Cost Code DB010: FY 2005 budget includes Below Threshold Repogramming (BTR) for Surface Ship Anti-Submarine Warfare Improvements under Cost Code DB010. Funds used to accelerate the fielding (via TEMPALT) of affordable and measurable active and passive warfighting performance upgrades (Suitcase Mods, Sparsely Populated Volumetric Array (SPVA), MFTA, etc.) to legacy AN/SQQ-89(V) Surface USW Combat Systems on deploying on CG47, DDG51 and FFG7 class ships. Each installation will include state-of-the-art ASW improvements hosted on modern COTS hardware, including: 1) improved mid-frequency hull active performance with new waveforms, signal processing and displays, 2) improved torpedo classification and alertment, and 3) improved SQR-19 array passive processing and displays. Efforts are as follows: 1) Development of Rapid Supportability Insertion in the areas of deferred maintenance, supply and services, scaled down Supportability Functional Segment, training, and full Fleet documentation, 2) Development of a permanent SHIPALT Package, and 3) Procurement, installation and support of eleven (11) TEMPALT upgrades on seven (7) Carrier Strike Groups (CSGs).

FMP Installation: Funding is for the installation of equipment by "K" ALTs through shipvards and/or Alteration Installation Teams (AIT).

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	WEAPONS SYSTEM CO P-5	OST AN	IALYSIS			Weapon Sy	stem							DATE: FEBRUA	DV 2006
APPROP	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	IOMENCLATU	RE/SUBHEAD)				TEBROA	K1 2000
Other P	rocurement, Navy / BA-02						*****	00000				040000/5			
			TOTAL COS	T IN THOUS	SANDS OF DO	A II ARS	AN/SQQ	-89(V) Surta	ace ASW C	ombat Sy	stem / BLI	213600/5			
				1 111 111000	DANDO OF DO	LLANO									
COST	ELEMENT OF COST	ID Code	FY 2004 and Prior					FY 2005			FY 2006			FY 2007	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
DBCA1	AN/SQQ-89 Modernization/ IPS (Cong Adds)	Α							11,024			8,800			
DB010	Surface Ship ASW Improvements (BTR)	Α							5,049						
DB200	SIPS FFG7 Class System Components (NEW SIPS SHIPALT Shipsets)	Α								1	621	621			
DB200	SIPS FFG7 Class System Components (SIPS TEMPALT to SHIPALT Shipsets)	Α											1	361	36
DB300	SIPS CG47 Class System Components (NEW SIPS SHIPALT Shipsets)	Α								2	621	1,243			
DB300	SIPS CG47 Class System Components (SIPS TEMPALT to SHIPALT Shipsets)	Α											1	361	36
DB400	AN/SQQ-89A(V)15 New Handling Gear for MFTA and First Article Test (FAT)	Α													75
DB400	AN/SQQ-89A(V)15 DDG51 Class System Components (DDG79-102 Shipsets)	Α								1	12,064	12,064	2	10,025	20,05
DB400	SIPS DDG51 Class Sys. Components (NRE)	Α										2,025			
DB400	SIPS DDG51 Class System Components (NEW SIPS SHIPALT Shipsets)	Α								4	621	2,486	6	656	3,93
DB400	SIPS DDG51 Class System Components (SIPS TEMPALT to SHIPALT Shipsets)	Α											6	361	2,16
DB600	SIPS Trainer System Components	Α										500			
DB700	AN/SQQ-89A(V)15 Shore Site System Components (SSES, ACSC)	Α													2,000
DB700	SIPS Shore Site System Components	Α										100			
DB830 DB830	Production Engineering - SIPS Production Engineering - SQQ-89A(V)15											1,557 1,365			39 2,04
DB900	Consulting Services - SQQ-89A(V)15											493			50
DB984 DB984	Systems Technical Support - SIPS Systems Technical Support - SQQ-89A(V)15											350 0			37
DB006	INSTALLATION FOR DB200 (FFG7 Class) (SIPS Shipsets)									1	280	280	1	161	16
DB006	INSTALLATION FOR DB300 (CG47 Class) (SIPS Shipsets)									2	268	535	1	161	16
DB006	INSTALLATION FOR DB400 (DDG51 Class) (AN/SQQ-89A(V)15 Shipsets)														1,57
DB006	INSTALLATION FOR DB400 (DDG51 Class) (SIPS Shipsets)									4	391	1,563	12	246	2,95
	<u> </u>						†		16,073			33,982			37,78

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BUDGET PROCUREMI	NT HISTO	RY AND PL	ANNING EXHIBIT	(P-5A)		Weapon System		A. DATE	EBRUARY 2	006
B. APPROPRIATION/BUDGET /		2			C. P-1 ITEM NOM	I ENCLATURE			SUBHEAD	
,	, ,					V) Surf ASW Combat	Sys / BLI 21			DB
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>FY 2005</u> N/A										
FY 2006										
DB200/ NEW SIPS S/A	1	621	NAVSEA	Mar-05	Option FP	AAC, NY	Dec-05	Mar-06	Yes	
DB300/ NEW SIPS S/A	2	621	NAVSEA	Mar-05	Option FP	AAC, NY	Dec-05	Apr-06	Yes	
DB400/ SQQ-89A(V)15 * <u>DB400/ SQQ-89A(V)15 **</u> Total	1 1	8,117 <u>3,947</u> 12,064	NAVSEA Various	Sep-01 Various	Option FP Various	Lockheed Martin, NY Various	Feb-06 Various	Sep-07 Various	Yes Yes	
DB400/ NEW SIPS S/A	4	621	NAVSEA	Mar-05	Option FP	AAC, NY	Dec-05	Mar-06	Yes	
FY 2007										
DB200/ SIPS T/A> S/A	1	361	NAVSEA	Mar-05	Option FP	AAC, NY	Nov-06	Feb-07	Yes	
DB300/ SIPS T/A> S/A	1	361	NAVSEA	Mar-05	Option FP	AAC, NY	Nov-06	Feb-07	Yes	
DB400/ SQQ-89A(V)15 *** <u>DB400/ SQQ-89A(V)15 **</u> Total	2 2	6,003 <u>4,022</u> 10,025	NAVSEA Various	Aug-05 Various	FPIF Various	TBD Various	Nov-06 Various	July-08 Various	Yes Yes	
DB400/ NEW SIPS S/A	6	656	NAVSEA	Mar-05	Option FP	AAC, NY	Nov-06	Feb-07	Yes	
DB400/ SIPS T/A> S/A	6	361	NAVSEA	Mar-05	Option FP	AAC, NY	Nov-06	Feb-07	Yes	

D. REMARKS

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CLASSIFICATION:

^{*} Specific contract procurement information shown for AN/SQQ-89A(V)15 shipset buys reflects Lockheed Martin (AN/SQQ-89(V) prime hardware vendor/integrator) cost only.

^{**} Procurement of other AN/SQQ-89A(V)15 CFE (OBRPs, MAMS, INCO SPARES and STTE, MFTA, and Handling & Stowage Gear) to be accomplished via multiple contract vehicles.

^{***} New contract to be awarded in FY07.

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OTHER - ENGINEERING SUPPORT

INTERIM CONTRACTOR SUPPORT

TOTAL PROCUREMENT

OTHER

AN/SQQ-89(V) Surface ASW Combat System / BLI 213600/5

FY 2007

FY 2008

FY 2009

FY 2010

FY 2011

FEBRUARY 2006

TOTAL

P3A INDIVIDUAL MODIFICATION

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FY 2004 & Prior

MODELS OF SYSTEM AFFECTED: DDG51 Class Ships/ DBCA1 TYPE MODIFICATION: Added Capability MODIFICATION TITLE: AN/SQQ-89 Modernization/ IPS

FY 2005

(FY2005/2006 Cong Adds)

To Complete

DESCRIPTION/JUSTIFICATION:

FY 2005/2006 budget includes Congressional Adds for 'AN/SQQ-89 Modernization' and 'Improved Performance Sonar' under Cost Code DBCA1. Urgency in improving ASW capabilities is a top priority to support CNO's Task Force ASW and Sea Power 21 Sea Trial efforts. Priorities include commonality across Surface Undersea Warfare Combat Systems. The Improved Performance Sonar (IPS) system provides technology refresh and insertion test platforms for new and innovative USW warfighting capabilities to be considered for future integration into deployed systems. Efforts include technology insertion of new active, passive, supportability and sensor USW capabilities, enhanced torpedo detection and evasion, refresh of current IPS technologies on board two DDGs.

FY 2006

QTY \$ QTY QTY QTY QTY \$ QTY \$ \$ \$ QTY QTY FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT INSTALLATION KITS** 0.0 **INSTALLATION KITS - UNIT COST** 0.0 INSTALLATION KITS NONRECURRING 0.0 **EQUIPMENT** 7.0 7.0 5.6 19.6 **EQUIPMENT NONRECURRING** 2.8 2.8 2.2 7.8 **ENGINEERING CHANGE ORDERS** 0.0 DATA 0.0 TRAINING EQUIPMENT 0.0 SUPPORT EQUIPMENT 0.0 OTHER - ECPs 0.0

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1.1

10.9

INSTALL COST (N/A - Fielding of IPS AN/SQQ-89 Modernization Upgrade via TEMPALT)

PAGE

1.0

8.8

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0.0

3.3

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AN/SQQ-89(V)	Surface A	SW Combat	System / RI	1 213600/5
MIN/3/4/4-03(1)	Juliace A	SVV Collibat	SVSICIII / DI	_ & 3000/3

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P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: DDG51 Class Ships / DB400 TYPE MODIFICATION: Added Capability MODIFICATION TITLE: SIPS Adjunct Upgrades

DESCRIPTION/JUSTIFICATION:

The Scaled Improved Performance Sonar (SIPS) adjunct upgrade on CG47, DDG51 and FFG7 class ships will provide quick, affordable and measurable near term active and passive performance enhancements via SHIPALT to the existing legacy AN/SQQ-89(V) Surface USW Combat System. Active and passive improvements include critical improvements to torpedo defense warfighting capabilities (classification and alertment), reduction in high false contact rates and clutter thereby improving USW ability to correctly classify torpedoes, active improvements in operator/tactical employment proficiency, new active waveforms to improve littoral capability, and passive improvements in signal processing and operator displays.

DEVELOPMENT STATUS/MAJOR DEVELOP	MENT MILE	STONE	S: [Develop	ment o	of SIPS	comple	eted in F	Y05 wi	th subse	equen	fielding	via TE	MPALT	s on C	G47, DI	DG51	and FF0	G7 clas	s ships to	occur FY05	 5.
	FY 2004 QTY	4 & Prior \$			<u>FY</u> QTY	2005 \$	<u>FY</u> QTY	<u>2006</u> \$		<u>′ 2007</u> \$		<u>/ 2008</u> \$		<u>′ 2009</u> \$		<u>2010</u> \$		<u>′ 2011</u> \$	To C	omplete \$	<u>TC</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																						
<u>RDT&E</u>																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT							4	2.5	12	6.1	6	3.9	7	4.6							29	17.1
EQUIPMENT NONRECURRING								2.0														2.0
ENGINEERING CHANGE ORDERS																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER - ECPs																						0.0
OTHER - ENGR SUPT (DB830/984)								1.7		0.6		0.8		0.8								3.9
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT						_																0.0
INSTALL COST							4	1.6	12	3.0	6	1.8	7	1.8							29	8.2
TOTAL PROCUREMENT		0.0				0.0		7.8		9.7		6.5		7.2		0.0		0.0		0.0		31.2

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CLASSIFICATION: UNCLASS	IFIED	IN IBN	//B!!A		- DIE 10 4		<u></u>		N/SQQ-8	39(V) S	Surfac	ce AS	W Co	mbat	Syste	m / E	3LI 21	3600/5							FE	BRUA	RY 2006	
P3A (Continued)		INDI	VIDUA	L MC	DDIFICAT	IION (Continu	ed)																				
MODELS OF SYSTEMS AFFE	CTED:	DDG	51 Cla	SS	MOE	DIFICA	TION TI	ΓLE:	SIPS	Adjun	ct Up	grade	es								_							
INSTALLATION INFORMATION METHOD OF IMPLEMENTATION ADMINISTRATIVE LEADTIME: CONTRACT DATES: DELIVERY DATE:	ON: SHI		AITs	1	PRODUC FY 2005: FY 2005:		LEADTI	ME:	3 mor	iths for	SIPS	S Adju	nct Up FY 20 FY 20	006:		Dec-(Mar-(- - -		FY 20 FY 20							
Cart	lev.	2004 8	Deine			T =	V 2005			\$ in Mi			N7		V 200	n 1		V 2000	I -	V 2040	T -	V 204	14	To Co				otal
Cost:	Qtv	2004 &	\$ Prior			Qtv	Y 2005	Qt	FY 200		Qty	Y 200		Qtv	Y 2008 \$		Qty	Y 2009 \$	Qtv	Y 2010 \$	Qty	Y 201	\$	To Co Qty		e \$	Qty	stai
FY 2004 and PRIOR YEARS			,				,			,	,		r		<u> </u>			· ·		•			<u> </u>			·	0	·
																											0	0.
FY 2005 EQUIPMENT																											0	0.
FY 2006 EQUIPMENT									4	1.2																	4	1.
FY 2007 EQUIPMENT										0.4	12		2.8														12	3.
FY 2008 EQUIPMENT													0.2	6		1.5											6	1.
FY 2009 EQUIPMENT																0.3	7	1.8									7	2.
FY 2010 EQUIPMENT																											0	0.
FY 2011 EQUIPMENT																											0	0.
TO COMPLETE																											0	0.
INSTALLATION SCHEDULE	i			-> / 0/	205	1	F)/ 00/			51/0	007			5)(2000			51,000							2011			
FY 2004 & Prior			1	FY 20 2	<u>005</u> 3 4	1	FY 200 2	<u>16</u> 3 ∠		<u>FY 2</u>	3	4	1	<u>FY 2</u> 2	<u>2008</u> 3	4	1	FY 2009 2 3	4	1 2	<u>' 2010</u> 3	4	1	<u>FY 2</u> 2	<u>2011</u> 3	4	<u>TC</u>	TOTAI
In 0			0		0 0	0		2 2	→ H	4	4	4	0	1	2	3	0	2 2	3	0 0	0	0	0	0	0	0	0	29
Out 0			0		0 0			2 2		4	4	4	0	1	2	3	0	2 2	3		0	0	0	0	0	0	0	29

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CLASSIFICATION: UNCLASSIFIED

FEBRUARY 2006

CLASSIFICATION: UNCLASSIFIED

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: DDG51 Class Ships / DB400 TYPE MODIFICATION: Added Capability MODIFICATION TITLE: AN/SQQ-89(V) Upgrades (FY04 & Prior)
AN/SQQ-89A(V)15 Surf USW Cbt Sys (FY06 & Out)

DESCRIPTION/JUSTIFICATION:

The AN/SQQ-89A(V)15 backfit upgrade, developed under RDT&E PE 0205620N, capitalizes on both the AN/SQQ-89(V)15 forward fit and CG Modernization backfit program investments. It will reconstitute/integrate onto DDG51 Class FLT IIA (DDG79 and onward) ships (IOC in FY08) a tactical towed array sensor (Multi-Function Towed Array) while replacing legacy, standard militarized legacy components with Commercial-Off-The-Shelf (COTS) hardware to provide a USW combat system with the capability for mid-frequency bistatic and multi-static sonar operations. The AN/SQQ-89A(V)15 features a mid frequency bistatic hull/towed Sonar Echo Tracker Classifier, hull/towed Sonar with Acoustic Intercept (ACI) fused data for improved torpedo defense, passive towed array processing, common Sub/Surface sensor performance and prediction, common NAVAIR/Surface LAMPS processing, portable software, and integrated supportability and on-line training.

DEVELOPMENT STATUS/ MAJOR SQQ-89A(V)15 Pre-Production Prototype ordered FY 2003, installed 3Q04, successful DT&E/ IOT&E conducted FY04/05. DEVELOPMENT MILESTONES: Incremental upgrades provided every two years to SQQ-89A(V)15 production program via spiral development build process. FY 2004 & Prior FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete **TOTAL** QTY \$ QTY FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT**

INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT (DDGs 79-102)							1	12.1	2	20.1	2	20.5	6	66.5	6	68.4	6	69.9	1	12.9	24	270.4
EQUIPMENT (DDGs 103-112)																			10	69.7	10	69.7
EQUIPMENT NONRECURRING (New Handling G	ear for	MFTA a	nd FA	T, Majo	r MFT	TA Equipr	nent,			0.8		3.3		6.8		5.6		1.5				18.0
New MFTA Production Contract and FAT, New SC	Q-89(\	V) Contra	ct Aw	vard Tra	nsitior	ո/Start-Uլ	o)															0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER - ECPs	Var	23.6																				23.6
OTHER - ENGR SUPT (DB830/900/984)		20.7						1.9		2.4		3.1		5.5		8.2		8.6		13.6		64.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST	Var	9.3								1.6	1	4.2	2	8.5	2	8.7	6	26.6	23	94.7	34	153.6
TOTAL PROCUREMENT		53.6				0.0		14.0		24.9		31.1		87.3		90.9		106.6		190.9		599.3

P-1 SHOPPING LIST ITEM PAGE CLASSIFICATION: UNCLASSIFIED

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CLASSIFICATION: UNCLASSIFIED AN/SQQ-89(V) Surface ASW Combat System / BLI 213600/5 **FEBRUARY 2006** P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: DDG51 Class MODIFICATION TITLE: AN/SQQ-89(V) Upgrades (Prior) AN/SQQ-89A(V)15 Surface USW Combat System (FY07 & Out) INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: SHIPALTS/Shipyards & AITs ADMINISTRATIVE LEADTIME: 1 Month PRODUCTION LEADTIME: 20 months for AN/SQQ-89A(V)15 Surface USW Combat System CONTRACT DATES: FY 2005: FY 2007: Nov-06 FY 2006: Feb-06 DELIVERY DATE: FY 2007: July-08 FY 2005: FY 2006: Oct-07 (\$ in Millions) Cost: FY 2004 & Prior FY 2005 FY 2006 FÝ 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total Qty \$ Qty Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty Qty Qty \$ FY 2004 and PRIOR YEARS 9.3 Var 0 9.3 0 0.0 0 FY 2005 EQUIPMENT 0.0 FY 2006 EQUIPMENT 1.6 4.0 5.6 0.2 FY 2007 EQUIPMENT 8.3 8.5 **FY 2008 EQUIPMENT** 0.2 8.3 8.5 FY 2009 EQUIPMENT 0.4 26.0 26.4 FY 2010 EQUIPMENT 0.6 27.0 27.6 27.5 FY 2011 EQUIPMENT 6 27.5 TO COMPLETE 40.1 40.1 INSTALLATION SCHEDULE: FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TC & Prior 3 **TOTAL** 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 23 In 0 34 Out 0 0 0 0 0 0 0 0 0 0 26 34

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P-3A CLASSIFICATION: UNCLASSIFIED

		BUDGE	T ITEM JUS	TIFICATION	SHEET			DATE:					
			P-40							February 2006			
APPROPRIATION/E	BUDGET ACTIVIT	ΓΥ				P-1 ITEM NOMENCLATURE							
OTHER PROCU	REMENT, NA	VY/BA:2				214700/SSN	ACOUSTIC	S					
Program Element fo	or Code B Items:					Other Related	Program Eleme	ents					
		,		T	T		_						
	Prior	ID	E)/ 000E	F)/ 0000	E) (0007	F)/ 0000	F)/ 0000	E) (00.10	E) (0044				
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	Total			
QUANTITY	N/A	В								0			
COST													
(In Millions)			\$229.3	\$231.6	\$284.9	\$336.6	\$304.3	\$308.5	\$294.2	\$2,251.3			
SPARES COST													
(In Millions)			\$14.5	\$21.0	\$18.0	\$16.4	\$23.3	\$11.5	\$12.0	131.0			

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program procures submarine systems and equipment for installation on all classes of submarines to maintain clear acoustical, tactical and operational superiority over submarine and surface combatants in all scenarios through detection, classification, localization and contact following. All future acoustic upgrades of Acoustic-Rapid COTS Insertion (A-RCI) equipment are incorporated into this budget item. Future procurements, detailed below, are focused on supporting Littoral Warfare, Regional Sea Denial, Strike Group Support, Diesel Submarine Detection, Surveillance, and Peacetime Engagement. Acoustics Rapid COTS Insertion (A-RCI) is a multi-phased, evolutionary development effort geared toward addressing Acoustic Superiority issues through the rapid introduction of interim products applicable to SSN 688, 688I Flight, SSN21, SSGN and SSBN 726 Class Submarines. A-RCI Phase II provides towed array processing improvements; A-RCI Phase III provides spherical array processing improvements. The AN/BSY-1 High Frequency Upgrade is a stand-alone program which is provided as A-RCI Phase IV for SSN 688I and Seawolf Class only. As part of Navy's plan to maintain acoustic superiority for In-Service Submarines a joint cooperative effort with IWS-5 to deliver annual Advanced Processing Builds (APBs). The capabilities in the APBs will be integrated as part of A-RCI certified systems. This effort, known as the N772 Business Plan funds the APB integration efforts with the Multi-Purpose Processor as well as the AN/BQQ-10 Sonar system beginning in FY02. This budget submit also reflects the procurement of Technology Insertion kits, Submarine Tactical Decision Aids (STDA), Total Ship Monitoring System (TSMS), Active Intercept and Ranging (Al&R), Precision Bottom Mapping, Acoustic Intelligence (ACINT 21), and upgrades for the AN/BQS-15 and AN/BQS-17A equipment to be installed with A-RCI systems.

Towed system's procurements include Towed Array Refurbishment & Upgrades, TB-16, TB-34 Next Generation, TB-33 Fiber Optic and Towed Array Handling Systems (OA-9070 B kits) and upgrades. Towed Systems procurements provide upgrades/support for TB-16 Series Towed Arrays, TB-23 Towed Arrays, TB-29 Series Towed Arrays, OK-276 Series Towed Array Handlers, OK-634 Towed Array Handler and OA-9070 Series Handlers installed on SSN688, SSN 688I, SSN21 and SSBN726 Class Submarines. These upgrades provide increased sensor capability to maintain acoustic superiority and reliability improvements to increase the service life, reduce failures, and increase the inventory of arrays and handlers available for fleet use.

Sensor system procurements provide improvements in sensor capability and reliability to include TB-33 Arrays (FOTL) Arrays, TB-16G, Next Generation Fatline Arrays, Hull Mounted Arrays Handler upgrades kits for the new sensors. Refurbishment and reliability improvements are also provided for the in-service sensor systems.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86

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UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA: 2	214700/SSN ACOUSTICS

SA101 ACOUSTICS UPGRADES:

Procures A-RCI TA, SA, HA, and HF Upgrade Kits, Total Ship Monitoring Systems (TSMS), Active Intercept and Ranging (AI&R) Sensors for forward and back-fit. Funding also supports the installation of A-RCI hardware and annual APBs and the refurbishment and installation of the upgrades.

SA102 TOWED SYSTEMS:

Procures TB-33 Array (Fiber Optic Thinline Systems FOTL), TB-16G Arrays, TB-34 (Next Generation Fatline Replacement Arrays), Advanced Hull Sensors, OA-9070B Towed Array Handler Kits, and refurbishment/upgrade material to support reliability improvements to TB-16, TB-23, TB-29 Towed Arrays and Towed Array Handling Systems. Handling System reliability improvements include: improved cables in the outboard systems, EMI improvements, roller boxes, improved hydraulic control and capstans. Towed Array reliability improvements include: improved internal connectors, hydrophones, towcables and Vibration Isolation Modules (VIMs). Towed Array improvements to increase performance include: Light Weight Tow Cables for the TB-29 A Towed Arrays and Wideband OMNI capability in TB-16 Arrays.

SA104 SSGN MODERIZATION:

Funds provided to procure A-RCI hardware for combat systems on SSGN conversions.

SA105 SONAR SUPPORT EQUIPMENT

Funds provided to procure BQN-17(A), BQS-15A EC-19, BQS-15A EC-20 and associated equipment.

SA201 BLOCK CHANGES:

Minor ECP's and hardware changes affecting all classes of submarines are procured through this line. Funding contained In this line will be used to support non-recurring first article test efforts associated with the changing COTS environment as well as Reliability, Maintainability and Availability modifications requested by the Fleet. This line also supports the procurement of hardware necessary to implement the ECP's into the System or end item being procured.

SA202 PRODUCTION/ENGINEERING SUPPORT:

Funding supports the procurement of Acoustics Upgrades equipment and Towed System hardware.

SA203 TOWED ARRAY UNIQUE TEST EQUIPMENT:

Funding procures various towed array test equipment and handling system/stowage tube inspection test equipment.

SA302 OP TRAINER UPGRADES:

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Funding procures hardware upgrades and production engineering for Acoustic Upgrades operational trainer sites.

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CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA: 2	214700/SSN ACOUSTICS

SA303 COTS SUPPORTABILITY UPGRADES:

Provides for Technology Refresh/Insertion for A-RCI kits. Tech Refresh provides for Software and Hardware updates to accommodate shifts in technology to the execution procurement years' "current state-of-the-practice" hardware. A-RCI has already undergone three technology insertion phases to accommodate integrating Advanced Processing Builds (APBs). Updates are necessary for signal and display processing hardware as APBs are introduced or as commercial support for the hardware is phased out. Tech Insertion procures the hardware necessary to upgrade and back fit the A-RCI kits. When A-RCI systems are being upgraded to subsequent phases of A-RCI (e.g. from Phase II to Phase IV), upgrades to the Phase II signal processing and display hardware will be procured from this line to accommodate common technology consistent with the APB being implemented in the year of introduction. In future years, requirements will be included to fund complete system technology insertion as the COTS hardware becomes unsupportable. Funding also supports the procurement of Ice Keel Avoidance, COTS Underwater Comms and COTS Frequency Converter.

SA401 INITIAL TRAINING:

Provides for initial training curriculum development, training management materials, exercise control group development, pilot services and services to the Fleet.

SA500 AN/BQG-5 WIDE APERTURE ARRAY (WAA):

Funding supports engineering changes and support unique to the AN/BQG-5 systems and upgrade and integration to the A-RCI baseline.

SA501 AN/BSY-2:

Funding supports procurement, installation and test of ARCI-HF Kits, ARCI SA Kits, ARCI (V)5 Kits.

SA5IN EQUIPMENT INSTALLATION:

Funds actual hardware installation during shipward and pierside availabilities. Procurements support a 12-15 month lead time for installations.

SA900 CONSULTING SERVICES:

Includes specification validation, contract deliverable monitoring, prime contractor monitoring for cost, schedule and performance slips, ILS planning and coordination of GFI. Additional support will include production planning, business case analysis, technical refresh and insertion planning and market analysis to review implementation strategies for procurement of current year "state of the practice" hardware in Acoustics programs. Consulting services will also provide production monitoring, installation planning and coordination support.

P-1 SHOPPING LIST

CLASSIFICATION:

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	WEAPONS SYSTEM COST ANALYSIS P-5									DATE: Februar	y 2006
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy		•	OMENCLATUR SN ACOUS							
BA-2: (COMMUNICATIONS AND ELECTRONICS EQUI	PMENT	1								
COST	ELEMENT OF COST	ID Code		FY 2005			FY 2006			FY 2007	
CODE		Codo	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SPONSOR: N77										
SA101	ACOUSTICS UPGRADES				\$48,777			\$43,694			\$64,342
	INSTALL SUPPORT	Α			5,100			\$5,500			\$5,20
	A-RCI 688 PHASE II KITS (TA RCI KITS)	В									
	A-RCI 688 PHASE II-III KITS (TA - SA RCI KITS)	В				1	7,446	7,446	3	7,566	22,69
	A-RCI 688 PHASE III KITS (SA RCI KITS)	В									
	A-RCI 688 Phase III Delta Kit		1	2,000	2,000	1	2,040	2,040			
	A-RCI 688I PHASE II-IV KITS (TA - SA/HF RCI KITS)	В	3	8,125	24,375	1	8,288	8,288			
	A-RCI 688I PHASE IV KITS (SA-HF RCI KITS)	В									
	A-RCI SSBN PHASE II KITS (TA RCI KITS)	В									
	A-RCI SSBN PHASE II REFURB		2	2,000	4,000	3	2,000	6,000	3	2,040	6,12
	TOTAL SHIP MONITORING SYSTEM KITS	Α	9	811	7,299	7	850	5,950	9	862	7,75
	ACTIVE INTERCEPT & RANGING KITS (AI&R)	Α	9	667	6,003	7	730	5,110	9	745	6,70
	LEGACY REPLACEMENT								5	1,800	9,00
	AI&R (SPVA) SENSORS (NON-BACKFIT)	Α				5	480	2,400	9	490	4,41
	AI&R (SPVA) SENSORS (BACKFIT APPLICATIONS)					2	480	960	5	490	2,45
SA5IN	ACOUSTICS UPGRADES INSTALLATION				\$38,540			\$44,592			\$36,857
SA102	TOWED SYSTEMS				\$35,084			\$37,752			\$43,715
	TOWED ARRAY REFURBISHMENT & UPGRADE	Α			25,832			21,916			27,75
	TOWED ARRAY HANDLER SYSTEM UPGRADE	Α			4,381			5,570			5,37
	OA-9070 B KITS	Α	1	510	510						
	TOWED ARRAY TB-29A	В									
	FIBER OPTIC ARRAY PROTOTYPE					1	6,000	6,000	1	6,123	6,12
	TB-16 ARRAY	Α	7	623	4,361						
	OK-542 TB-29 CONVERSION KITS								1	251	25
	TB-16 NEXT GENERATION	Α				5	780	3,900	5	781	3,90
	TB-16 NEXT GENERATION INTERFACE HWD	А				6	61	366	5	62	31
SA5IN	TOWED SYSTEM INSTALLATION				\$4,734			\$4,490			\$72

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5									DATE: February	y 2006	
PRIATION/BUDGET ACTIVITY rocurement, Navy COMMUNICATIONS AND ELECTRONICS EC		214700/S									
ELEMENT OF COST	ID Code		FY 2005			FY 2006		FY 2007			
	0000	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
SSGN MODERIZATION				\$31,000			\$31,000			\$(
SSGN CONVERSION	В										
SSGN PHASE IV KITS	В	2	15,500	31,000	2	15,500	31,000				
SSGN MODERNIZATION INSTALLATION				\$2,900			\$9,400			\$8,296	
SONAR SUPPORT EQUIPMENT				\$3,000			\$5,890			\$8,603	
BQN-17	А			1,400			800			80	
BQS-15A EC-19 (P)	А			100			500				
BQS-15A EC-20 (P)	А	2	750	1,500	6	765	4,590	10	780	7,80	
SONAR SUPT EQUIP INSTALLATION				\$500			\$1,250			\$3,828	
BLOCK CHANGES				\$3,573			\$3,674			\$3,874	
ACOUSTICS (AN/BQQ-5/AN/BSY-1)				2,117			2,187			\$2,059	
SSEP				200			200			40	
TOWED SYSTEMS ECP'S				1,256			1,287			1,41	
PROD/ENG'G SUPPT				\$5,764			\$5,817			\$2,595	
ACOUSTICS (AN/BQQ-5/AN/BSY-1)				2,446			2,519			2,59	
TOWED ARRAYS/HANDLING EQUIPMENT				3,318			3,298				
	P-5 PRIATION/BUDGET ACTIVITY POCUPEMENT, Navy COMMUNICATIONS AND ELECTRONICS ECCENTION ELEMENT OF COST SSGN MODERIZATION SSGN CONVERSION SSGN PHASE IV KITS SSGN MODERNIZATION INSTALLATION SONAR SUPPORT EQUIPMENT BQN-17 BQS-15A EC-19 (P) BQS-15A EC-20 (P) SONAR SUPT EQUIP INSTALLATION BLOCK CHANGES ACOUSTICS (AN/BQQ-5/AN/BSY-1) SSEP TOWED SYSTEMS ECP'S PROD/ENG'G SUPPT ACOUSTICS (AN/BQQ-5/AN/BSY-1)	P-5 RIATION/BUDGET ACTIVITY TOCUTEMENT, Navy COMMUNICATIONS AND ELECTRONICS EQUIPMENT ELEMENT OF COST ID Code SSGN MODERIZATION SSGN CONVERSION SSGN PHASE IV KITS B SSGN MODERNIZATION INSTALLATION SONAR SUPPORT EQUIPMENT BQN-17 BQS-15A EC-19 (P) A BQS-15A EC-20 (P) A SONAR SUPT EQUIP INSTALLATION BLOCK CHANGES ACOUSTICS (AN/BQQ-5/AN/BSY-1) SSEP TOWED SYSTEMS ECP'S PROD/ENG'G SUPPT ACOUSTICS (AN/BQQ-5/AN/BSY-1)	P-5 PRIATION/BUDGET ACTIVITY PROCUREMENT, Navy 214700/S COMMUNICATIONS AND ELECTRONICS EQUIPMENT ELEMENT OF COST ID Code Quantity SSGN MODERIZATION SSGN CONVERSION SSGN PHASE IV KITS B 2 SSGN MODERNIZATION INSTALLATION SONAR SUPPORT EQUIPMENT BQN-17 BQS-15A EC-19 (P) BQS-15A EC-20 (P) A 2 SONAR SUPT EQUIP INSTALLATION BLOCK CHANGES ACOUSTICS (AN/BQQ-5/AN/BSY-1) SSEP TOWED SYSTEMS ECP'S PROD/ENG'G SUPPT ACOUSTICS (AN/BQQ-5/AN/BSY-1)	P-5	P-5 P-1 TEM NOMENCLATURE/SUBHEAD 214700/SSN ACOUSTICS/H2SA 21000/SSN ACOUSTICS/H2SA 21000/SSN ACOUSTICS/H2SA 21000/SSN ACOUSTICS 210000/SSN ACOUSTICS 210000/SSN ACOUSTICS 210000/SSN ACOUSTICS 210000/SSN ACOUSTICS 210000/SSN ACOUSTICS 210000/SSN ACOUSTICS 2100000/SSN ACOUSTICS 210000/SSN ACOUSTICS 210000/SSN ACOUSTICS 2100000/SSN ACOUSTICS 210000/SSN ACOUSTICS 2100000/SSN ACOUSTICS 21000000000000000000000000000000000000	P-5 P-1 TIEM NOMENCLATURE/SUBHEAD 214700/SSN ACOUSTICS/H2SA 214700/SSN ACOUSTICS (AN/BQQ-5/AN/BSY-1) P-1 TIEM NOMENCLATURE/SUBHEAD 21	P-5	P-5	P-5	P-5 P-1 TEM NOMENCIATURE/SUBHEAD 214700/SSN ACOUSTICS/H2SA 215,500 215,5	

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

UNCLASSIFIED

ITEM NO. 33

CLASSIFICATION: UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS DATE: February 2006 APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE/SUBHEAD 214700/SSN ACOUSTICS/H2SA Other Procurement, Navy **BA-2: COMMUNICATIONS AND ELECTRONICS EQUIPMENT** COST **ELEMENT OF COST** ID FY 2005 FY 2006 FY 2007 CODE Code Quantity Unit Cost **Total Cost** Quantity Unit Cost Total Cost Quantity Unit Cost **Total Cost** SA203 TOWED SYSTEMS UNIQUE TEST \$1,600 \$1,799 \$2,474 **EQUIPMENT** SA302 OP TRAINER GFE \$1,000 \$1,000 \$1,000 SA303 COTS SUPPORTABILITY UPGRADES \$32,493 \$36,951 \$90,139 COTS TECH INSERTION 24,993 27,451 28,559 Phase III/IV Technology Insertion Upgrades 11 4,080 44,880 SONAR TACTICAL DECISION AIDS (STDA) 5,000 5,000 5,000 AEMP 2,500 4,500 4,500 IKA 4,200 COTS UWC 3,000 COTS TECH REFRESH SA401 INITIAL TRAINING \$1.696 \$1.521 \$1.728 ACOUSTICS 1,200 1,008 1,200 TOWED ARRAY HANDLING EQUIPMENT 496 513 528 SA500 AN/BQG-5 WAA \$0 \$0 \$3,000 ENGINEERING CHANGES AN/BSY-2 \$10,100 \$0 SA501 \$0 A-RCI PHASE IV KIT 10,100 \$0 10,100 AN/BSY-2 EQUIPMENT INSTALLATION SA51N \$6,200 SA900 CONSULTING SERVICES \$2,387 \$2,782 \$2,867 ACOUSTICS 1,486 1,726 1,779 TOWED SYSTEMS 901 1,056 1,088 229,348 231,612 274,039

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UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS Weapon System DATE: February 2006 P-5 P-1 ITEM NOMENCLATURE/SUBHEAD APPROPRIATION/BUDGET ACTIVITY ID Code 214700/SSN ACOUSTICS/H2SA Other Procurement, Navy **BA-2: COMMUNICATIONS AND ELECTRONICS EQUIPMENT** FY 2009 FY 2010 COST FY 2008 ELEMENT OF COST FY 2011 To Complete Total CODE Total Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Quantity Unit Cost Quantity Unit Cost Total Cost Quantity Cost Quantit Cost SPONSOR: N77 SA101 ACOUSTICS UPGRADES \$55,525 \$35.923 \$16,819 \$9.936 \$359,039 Install Support \$5,626 \$3,200 \$2,800 \$3,000 A-RCI 688 PHASE II-III KITS (TA - SA RCI KITS) 1 7,717 7,717 A-RCI SSBN PHASE II KITS (TA RCI KITS) SSBN PHASE II SYSTEM REFURB 2 2,081 4,162 2,123 2,123 2,165 2,165 A-RCI SSBN PHASE II-III KITS (TA - SA RCI KITS) A-RCI SSBN PHASE III KITS (SA RCI KITS) 1 10,600 10,600 TOTAL SHIP MONITORING SYSTEM KITS (TSMS) 3 879 2,637 6 897 5,382 915 3,660 928 3,712 ACTIVE INTERCEPT & RANGING KITS (AI&R) 3 757 2,271 773 4,638 791 3,164 806 3,224 6 LEGACY REPLACEMENT 9 1.836 16.524 1.873 14.982 1.910 1.910 AI&R SENSORS (BACKFIT APPLICATIONS) 9 499 4,491 509 2,545 520 1,040 AI&R SENSORS (NON-BACKFIT APPLICATIONS) 3 499 1,497 509 3,054 520 2,080 SA5IN ACOUSTICS UPGRADES INSTALLATION \$47,226 \$40,541 \$34,519 \$15,362 \$207,726 SA102 TOWED SYSTEMS \$79,133 \$93,784 \$94,360 \$107,032 \$572,660 TOWED ARRAY REFURBISHMENT & UPGRADE 43,125 35,163 26,891 23,817 TOWED ARRAY HANDLER SYSTEM UPGRADE 7,986 5,315 5,422 5,793 ADVANCED SENSORS FIBER OPTIC ARRAY PROTOTYPE LARGE VERTICAL ARRAY 15,300 15,300 FIBER OPTIC ARRAY 6 1.091 1.113 6.678 1,135 11.350 1.158 10.422 6.546 10 FIBER OPTIC RECEIVER 4 1,860 7,440 1,898 7,592 1,936 11,616 1,974 11,844 FIBER OPTIC SIGNAL PATH 148 592 150 900 153 4 145 580 918 LOW COST CONFORMAL ARRAY (LCCA) 25,998 3,570 24,990 3.641 25.487 3,714 OK-542 TB-29 CONVERSION KITS 2 256 512 261 261 TB-16 NEXT GENERATION 734 12,478 17 720 12,240 17 16 748 11,968 16 762 12,192 TB-16 NEXT GENERATION INTERFACE HWD 11 64 704 11 65 715 66 726 11 68 748 SA5IN TOWED SYSTEMS INSTALLATION \$1.500 \$6.322 \$5.049 \$5.814 \$43,106

CLASSIFICATION:

P-1 SHOPPING LIST

UNCLASSIFIED

	WEAPONS SYSTEM P-5		ALYSIS				Weapon Sy	stem							DATE:	Febr	uary 2006
Other Pro	RIATION/BUDGET ACTIVITY ocurement, Navy OMMUNICATIONS AND ELECTRONICS EG	UIPMEN	т				ID Code			TURE/SUBHE							•
COST	ELEMENT OF COST		FY 2008		ı	FY 2009		ı	FY 2010		_	FY 201		I -	- Complete	1	Total
CODE	ELEMENT OF COST	Quantity		Total Cost	Quantity		Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	o Complete Cost	Quantity	Cost
SA104	SSGN MODERIZATION SSGN CONVERSION SSGN PHASE IV KITS			\$0			\$0			\$0			\$0				\$63,000
SA5IN	SSGN MODERNIZATION INSTALLATION									\$0			\$0				\$15,000
SA105	SONAR SUPPORT EQUIPMENT BQN-17/15A Support			\$2,392 800			\$4,047 800			\$800			\$800				\$28,241
SA5IN	BQS-15 EC-20 (P) SONAR SUPT EQUIP INSTALLATION	2	796	1,592 \$6,500	4	812	3,247 \$1,330			\$2,708			0				\$12,638
SA201	BLOCK CHANGES ACOUSTICS (AN/BQQ-5/ANBSY-1) SSEP TOWED SYSTEMS ECP'S			\$3,976 2,133 400 1,443			\$4,095 2,223 400 1,472			\$4,363 2,462 400 1,501			\$4,401 2,470 400 1,531				\$31,508
SA202	PROD/ENG'G SUPPT ACOUSTICS (AN/BQQ-5/AN/BSY-1) TOWED ARRAYS/HANDLING EQUIP			\$6,090 2,673 3,417			\$6,296 2,753 3,543			\$6,487 2,850 3,637			\$6,584 2,850 3,734				\$67,786
SA203	TOWED SYSTEMS UNIQUE TEST EQUIPMENT			\$3,032			\$2,192			\$1,132			\$1,132				\$17,074
SA302	OP TRAINER UPGRADES			\$1,000			\$1,000			\$1,000			\$1,000				\$9,400
			P-1 SHOPF										CLASSIFICAT				

P-1 SHOPPING LIST ITEM NO. 33

CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM	COST A	NALYSIS				Weapon Sys	tem							DATE:		
∆ PPR∩PE	P-5 RIATION/BUDGET ACTIVITY	5					ID Code	D ₋ 1 ITEM	NOMENCIA	ATURE/SUBHE	ΔD					Febru	ary 2006
	ocurement, Navy									USTICS/H2							
BA-2: C	OMMUNICATIONS AND ELECTRONICS EQ	UIPMEN	IT														
COST	ELEMENT OF COST		FY 200	08		FY 2009)		FY 2010)		FY 2011	1	То	Complete		Total
CODE		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
SA303	COTS SUPPORTABILITY UPGRADES			101,924			79,344			93,719			100,694				\$535,264
	COTS TECH INSERTION			30,680			8,179			10,703			4,962				
	Phase III/IV Technology Insertion Upgrades	12	4,162	49,944	11	4,245	46,695	12	4,330	51,960	10	4,416	44,160				
	SONAR TACTICAL DECISION AIDS (STDA)			8,000			5,000			5,800			4,900				
	ICE KEEL AVOIDANCE	3	1,100	3,300	5	1,122	5,610	9	1,144	10,296	18	1,167	21,004				
	COTS UWC	5	1,000	5,000	8	1,020	8,160	9	1,040	9,360	14	1,061	14,854				
	COTS FREQUENCY CONVERTER						700	2	300	600	19	306	5,814				
	AEMP			5,000			5,000			5,000			5,000				
SA51N	COTS Supportability Upgrade Installation			\$20,500			\$24,520			\$27,372			\$36,214				
SA401	INITIAL TRAINING			\$1,846			\$1,864			\$2,143			\$2,147				\$12,945
	ACOUSTICS			1,300			1,300			1,561			1,546				ψ12,343
	TOWED ARRAY HANDLING EQUIPMENT			546			564			582			601				
	TOWED ARRAT HANDLING EQUIPMENT			546			304			502			601				
SA500	AN/BQG-5 WAA			\$3,000			\$0			\$0			\$0				\$6,000
	LEGACY WAA INTEGRATION			3,000													
SA501	AN/BSY-2			\$0			\$0			\$0			\$0				\$10,100
SA51N	AN/BSY-2 EQUIPMENT INSTALLATION						\$0			\$0			\$0				\$6,200
SA900	CONSULTING SERVICES			\$2,953			\$3,010			\$3,041			\$3,041				\$20,081
	ACOUSTICS			1,832			1,856			1,887			1,887				
	TOWED SYSTEMS			1,121			1,154			1,154			1,154				
				336,597			304,269			293,512			294,157				

CLASSIFICATION:

UNCLASSIFIED

B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2: COMMUNICATIONS AND ELECTRONICS EQUIPMENT C. P-1 ITEM NOMENCLATURE 214700/SSN ACOUSTICS H2SA CONTRACT CONTRACT METHOD CONTRACTOR AWARD FIRST AVAILABLE REVISION	BUDGET PROCUREMENT HISTORY AND PLAN	INING EXH	IIBIT (P-5 <i>A</i>	N)		Weapon System		A. DATE	Fab 00	
Contemporation Cont					In 10 10 10 10 10 10 10 10 10 10 10 10 10	ASNOVATURE			Feb-06	
BA-2: COMMUNICATIONS AND ELECTRONICS EQUIPMENT COST										
Cost Element/ FISCAL YEAR OLIANTITY UNIT COST COCATION OF PCO REP ISSUE DATE CONTRACTOR AND LOCATION AT YES CONTRACTOR AND LOCATION AT YE	, ,				214/00/551	H2SA				
Cost Element Cost	BA-2: COMMUNICATIONS AND ELECTRO	NICS EQI	JIPMENT							
SA101 - A-RCI TA TO SA/HF UPGR. KITS (688I) 3 \$8,125 NAVSEA SS/CPIF Lockheed Martin, VA 1/05 1/06 YES SA101 - A-RCI Phase III Delta KIT \$2,000 NAVSEA SS/CPIF Lockheed Martin, VA 1/05 1/06 YES SA101 - SSRN KITS 9 \$811 NAVSEA SS/CPIF Lockheed Martin, VA 1/05 1/06 YES SA101 - SSRN KITS 9 \$867 NAVSEA SS/CPIF Lockheed Martin, VA 1/05 1/06 YES SA101 - ACTIVE INTERCEPT RANGING KITS 9 \$867 NAVSEA SS/CPIF DORRADO		QUANTITY	COST		METHOD			FIRST	AVAILABLE	DATE REVISIONS AVAILABLE
SA101 - A-RCI Phase III Delta Kit	<u>FY 2005</u>									
SA101 - A-RCI 688 Phase III Delta KITS (TA RCI) \$2,040 \$3/07 \$5/46 \$5/47 \$5/48 \$5/46 \$5/46 \$5/46 \$5/46 \$5/46 \$5/46 \$5/46 \$5/47 \$5/48 \$5/46 \$5/47 \$5/48 \$	SA101 - A-RCI Phase III Delta Kit SA101 - SSBN Phase II Refurb SA101 - TSMS KITS SA101 - ACTIVE INTERCEPT RANGING KITS SA102 - OA-9070B KITS SA102 - TB-16 ARRAY SA104 - SSGN CONVERSION SA105 - BQS-15A EC-20	1 2 9 9 1 7 2	\$2,000 \$2,000 \$811 \$667 \$510 \$623 \$15,500 \$750	NAVSEA NAVSEA NAVSEA NAVSEA NUWC, Newport NAVSEA NAVSEA NAVSEA	SS/CPIF SS/CPIF SS/CPIF C/CPIF C/FFP/Opt SS/CPIF/Opt SS/CPIF	Lockheed Martin, VA Lockheed Martin, VA DSR,VA. PROGENY NUWC, Newport CSC Lockheed Martin, VA ARL/UT	1/05 1/05 1/05 1/05 1/05 5/05 1/05	1/06 1/06 1/06 1/06 1/06 5/06 1/06	YES	
SA101 - A-RCI Phase II-III KITS 1 \$7,446 NAVSEA SS/CPIF Lockheed Martin, VA 3/06 3/07 YES SA101 - A-RCI Phase II-IV KITS 1 \$8,288 NAVSEA SS/CPIF Lockheed Martin, VA 3/06 3/07 YES SA101 - A-RCI SSBN Reuse 3 \$2,000 NAVSEA SS/CPIF Lockheed Martin, VA 3/06 3/07 YES SA101 - TSMS KITS 7 \$850 NAVSEA SS/CPIF Lockheed Martin, VA 3/06 3/07 YES SA101 - ACTIVE INTERCEPT RANGING KITS 7 \$730 NAVSEA SS/CPIF DSR,VA. 3/06 3/07 YES SA 101 - AI&R SENSORS (Non-BACKFIT) 5 \$480 NAVSEA C/CPIF/Opt PROGENY 3/06 3/07 YES SA 101 - AI&R SENSORS (Backfit) 2 \$480 NAVSEA CPIF/Opt PROGENY 3/06 3/07 YES SA102 - TB-16 ARRAY NEXT GENERATION 5 \$780 NAVSEA C/FFP TBD 5/06 5/07 YES SA104 - SSGN CONVERSION 2 \$15,500 NAVSEA SS/CPIF Lockhee	FY 2006									
	SA101 - A-RCI Phase II-III KITS SA101 - A-RCI Phase II-IV KITS SA101 - A-RCI SSBN Reuse SA101 - TSMS KITS SA101 - ACTIVE INTERCEPT RANGING KITS SA 101 - AI&R SENSORS (Non-BACKFIT) SA 101 - AI&R SENSORS (Backfit) SA102 - TB-16 ARRAY NEXT GENERATION SA102 - TB-16 INTERFACE HARDWARE SA104 - SSGN CONVERSION SA102-TB 33 Prototype	1 1 3 7 7 5 2 5 6 2	\$7,446 \$8,288 \$2,000 \$850 \$730 \$480 \$780 \$61 \$15,500 \$6,000	NAVSEA	SS/CPIF SS/CPIF SS/CPIF SS/CPIF C/CPIF CPIF/Opt CPIF/Opt C/FFP C/FFP SS/CPIF C/CPIF/OPT	Lockheed Martin, VA Lockheed Martin, VA Lockheed Martin, VA DSR,VA. PROGENY PROGENY PROGENY TBD TBD Lockheed Martin, VA CSC	3/06 3/06 3/06 3/06 3/06 3/06 5/06 5/06 5/06	3/07 3/07 3/07 3/07 3/07 3/07 3/07 5/07 5/07 5/07	YES	

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 33 Classification:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND P	LANNING EX	(HIBIT (P-5	5A)			Weapon System		A. DATE Feb-06			
. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NON	 ENCLATURE		Feb-06	SUBHEAD		
Other Procurement, Navy					214700/SSN ACOUSTICS						
BA-2: COMMUNICATIONS AND ELECT	RONICS E	QUIPMEN	Т								
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE	
FY 2007 SA101-A-RCI 688 Phase II-III SA101 - TSMS KITS SA101-A-RCI SSBN Reuse SA101 - ACTIVE INTERCEPT RANGING KITS SA 101 - AI&R SENSORS (Non-BACKFIT) SA 101 - AI&R SENSORS (BACKFIT) SA101 - LEGACY REPLACEMENT SA102 - TB-16 ARRAY NEXT GENERATION SA102 - TB-16 INTERFACE HARDWARE SA102-TB 33 Prototype SA102 - OK-542 TB-29 CONVERSION KITS SA105 - BQS-15A EC-20 (P)	3 9 3 9 5 5 5 1 1 10	\$7,566 \$862 \$2,040 \$745 \$490 \$1,800 \$781 \$62 \$6,123 \$251 \$780	NAVSEA		SS/CPIF SS/CPIF SS/CPIF C/CPIF CPIF/Opt TBD C/FFP C/CPIF/OPT C/FFP C/CPIF/OPT	Lockheed Martin, VA DSR,VA. Lockheed Martin, VA PROGENY PROGENY TBD TBD CSC NUWC, Newport ARL, UT	3/07 3/07 3/07 3/07 3/07 3/07 3/07 3/07	3/08 3/08 3/08 3/08 3/08 3/08 3/08 3/08	YES		

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CLASSIFICATION: UNCLASSIFIED																					
РЗА		INDIVIDUA	L MOE	DIFICAT	ION																
MODELS OF SYSTEM AFFECTED:	688 F	PHASE II - III I	KITS		TYPE	E MODI	FICAT	ION:	SHIP	ALT		_			MODIFICA	ATION	I TITLE:	SSN	N ACOUSTI	ICS	
DESCRIPTION/JUSTIFICATION:																					
688 TA - SA KIT; PROVIDES SPHERIO	CAL ARF	RAY PROCE	SSINC	G CAPA	BILITY	1															
Installation funding part of Acoustic Cos	t Code S	SA51N (Aco	ustics l	Upgrade	Instal	llation)															
DEVELOPMENT STATUS/MAJOR DEVE	ELOPME	NT MILEST	ONES):																	
	FY 2	2003 & Prior	<u>FY</u>	2004	FY	2005	<u>F</u>	Y 2006	<u>F</u>	Y 2007	F`	Y 2008	FY	2009	FY 201	<u>)</u>	FY 2011		<u>TC</u>	-	<u> TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY \$	Q	TY \$	QTY	/ \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																					0.000
<u>PROCUREMENT</u>																					
INSTALLATION KITS	9	53.604	3	21.400			1	7.446	3	22.698	1	7.717								17	112.865
INSTALLATION KITS - UNIT COST		5.956		7.133				7.446		7.566		7.717									

INSTALLATION KITS NONRECURRING 0.000 **EQUIPMENT** 0.000 **EQUIPMENT NONRECURRING** 0.000 ENGINEERING CHANGE ORDERS 0.000 DATA 0.000 TRAINING EQUIPMENT 0.000 SUPPORT EQUIPMENT 0.000 OTHER 0.000 OTHER 0.000 OTHER 0.000 INTERIM CONTRACTOR SUPPORT 0.000 9.400 1 INSTALL COST 5 2 6.936 3.400 2.829 45.877 11.144 8.868 3.300 17 TOTAL PROCUREMENT 64.748 30.800 3.400 14.382 25.527 16.585 3.300 158.742

ITEM 33 CLASSIFICATION: UNCLASSIFIED

CLASSIFICA		LASSII	FIED																								
P3A (Continu	ed)					INDIVIDUA	L MC	DIFICATIO	N (Co	ntinued)																	
MODELS OF	SYSTEMS	AFFEC	TED:	688 PHA	SE II -	III KITS		MODI	FICA	TION TITLE:			SSN	ACOUS	STICS	S								_			
INSTALLATIO					_																						
METHOD OF ADMINISTRA					<u> </u>		•	DDODI ICT		_EADTIME:				12	Mor	othe											
CONTRACT		FY 20			N/A			FY 2003:	IOIVI	LADTIME.		-		12	IVIOI	FY 200	04:						FY 2005	i:			
DELIVERY D	ATE:	FY 20	02:		N/A			FY 2003:								FY 200	04:					-	FY 2005	i:			
											(4	in Mi	llions)														
Cos	it:	Р	rior Yea	ars	F	Y2004		FY 2005		FY 2006	(4		FY 20	07	F	Y 2008	F	Y 2009		FY 201	10	ı	FY 2011	То	Complete		Total
		Qty		\$	Qty	\$	Qty	\$	Qty			Qty		\$	Qty	\$	Qty		Qty		\$	Qty	\$	Qt		Qty	\$
PRIOR YEA	.RS	5		11.144																						5	11.144
FY 2002 EQ																										0	0.000
FY 2003 EQ	UIPMENT				4	9.400																				4	9.400
FY 2004 EQ	UIPMENT						1	3.400)																	1	3.400
FY 2005 EQ	UIPMENT								2		6.936															2	6.936
FY 2006 EQ	UIPMENT											1		2.829												1	2.829
FY 2007 EQ	UIPMENT														3	8.868										3	8.868
FY 2008 EQ	UIPMENT																1	3.300	O							1	3.300
FY 2009 EQ	UIPMENT																									0	0.000
TO COMPL	ETE																										
INSTALLA	TION SCHE	DULE:																									
	FY 2003		<u>E</u>	Y 2004			FY 2	2005		FY 2006				FY 20	07		FY 2	2008		FY	2009		FY	2010		<u>TC</u>	
	& Prior	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4 1		3 4	1	2	3	4	1 2	3	3 4		TOTAL
In -	5	0	1	2	1	1	0		0	1	1	0	0	0	0	1 0		1 0	0	1	0	0				0	17
Out	5	0	11	2	11	11	0	0 0	0	1	1	0	0	0	0	1 0	2	1 0	0	1	0	0	0 0	(0	0	17
Two kits pr	rocured in F	Y04 will	be ins	talled as	Phase	III kits with	proc		A-RCI EM 33	Phase III delta kit.													P-3/ TION: UN				

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDUAI	L MO	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:		HASE III KIT				E MODIF	ICAT	ION:	SHIP	ALT		_			MOD	IFICATI	ION TI	TLE:	SSN	ACOUSTI	CS	
DESCRIPTION/JUSTIFICATION:																						
688 A-RCI SA KITS; PROVIDES SPHERIO FY05 and FY06 Delta kit (convert Phase II			CESS	SING CAF	PABIL	ITY																
Installation funding part of Acoustic Cost C	ode S	SA51N (Acou	ıstics	Upgrade	Insta	llation)																
DEVELOPMENT STATUS/MAJOR DEVELO	OPME	NT MILEST	ONES	S:								_										
	FY 2	003 & Prior \$	<u>F`</u> QTY	Y 2004 ' \$	<u>F\</u> QTY	<u>/ 2005</u> \$	<u>F\</u> QTY	<u>/ 2006</u> \$	<u>FY</u> QTY	<u>/ 2007</u> \$	<u>F`</u> QTY	<u>Y 2008</u> ' \$	<u>F`</u> QTY	<u>Y 2009</u> ' \$	<u>FY</u> QTY	<u>′ 2010</u> \$	<u>F)</u> QTY	<u>/ 2011</u> \$	QTY	<u>TC</u> \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)																-						
RDT&E																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS	4	35.762	2	19.584	1	2.000	1	2.024													8	59.370
INSTALLATION KITS - UNIT COST		8.941		9.792																		
INSTALLATION KITS NONRECURRING																						0.000

EQUIPMENT

DATA

OTHER

OTHER

OTHER

EQUIPMENT NONRECURRING

TRAINING EQUIPMENT

SUPPORT EQUIPMENT

ENGINEERING CHANGE ORDERS

INTERIM CONTRACTOR SUPPORT

5.100 1 2 7.832 INSTALL COST 4.600 4.800 27.266 4.934 8 | 86.636 | 86.636 | CLASSIFICATION: UNCLASSIFIED TOTAL PROCUREMENT 40.696 24.684 6.600 6.824 7.832 ITEM 33

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

CLASSIFICATION: U	NCLASS	IFIED																										
P3A (Continued)					INDI	VIDUA	L MO	DIFICATIO	N (Co	ntinued)																		
MODELS OF SYSTE	MS AFFE	CTED <u>: 6</u>	88 P	HASE	III K	ITS		MODI	FICAT	ΓΙΟΝ TITLE:			SSN	ACOL	JSTI	CS												
INSTALLATION INFO			HIP A	ALT																								
ADMINISTRATIVE LE			_						TION L	_EADTIME:		_		12	Mor	nths												
CONTRACT DATES:				N/A				FY 2003:									FY 200					_		Y 2005:				
DELIVERY DATE:	FY 2	002:		N/A				FY 2003:									FY 200)4:				_	F١	Y 2005:				
											(\$	in Mil																
Cost:		rior Years			FY 20			FY 2005		FY 2006			Y 200			FY 20			FY 2009		FY 2010					omplet		Total
	Qty	\$		Qty		\$	Qty	\$	Qty	\$		Qty		\$	Qty		\$	Qty	\$	Qty	\$	Qty		\$	Qty	\$	Qty	\$
PRIOR YEARS		2 4.	934																								2	4.934
FY 2002 EQUIPMEN	IT																										0	0.000
FY 2003 EQUIPMEN	IT						2	5.100)																		2	5.100
FY 2004 EQUIPMEN	IT								1		4.600																1	4.600
FY 2005 EQUIPMEN	IT											1		4.800													1	4.800
FY 2006 EQUIPMEN	IT														2		7.832										2	7.832
FY 2007 EQUIPMEN	IT																										0	0.000
FY 2008 EQUIPMEN	IT																										0	0.0
FY 2009 EQUIPMEN	IT																										0	0.0
TO COMPLETE																												
INSTALLATION SO	HEDULE	i:																		_,								
FY 200		<u>FY 2</u>					FY 2			FY 2006	_			FY 20					<u>2008</u>		FY 2009	_		<u>FY 2</u>			<u>TC</u>	
& Pric			3	4	. -	1		3 4	1	2	3	4	1	2	3	4	1		3 4	1	2 3		1	2	3	_		TOTAL
In 2	0	-	1	1		0	0		0	0	1	0	0	0	1	1	0	0	0 0	0	0 0				0	0	0	8
Out2	0	0	1	1	 ↓↓	0	0	1 0	0	0	1	0	0	0	1	1	0	0	0 0	0	0 0	0	0	0	0	0	0	8
																								D 04				
								ITE	EM 33												CLA	SSIFIC	CAT	P-3A TON: U		SSIFIE	ED	

CLASSIFICATION: UNCLASSIFIED						
РЗА	INDIVIDUAL MODIFIC	CATION				,
MODELS OF SYSTEM AFFECTED:	688I PHASE II - IV KITS	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS	
DESCRIPTION/JUSTIFICATION:						
688I A-RCI TA - SA/HF KITS; PROVIDI			APABILITY.			
31	(,				

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

		003 & Prior		<u>/ 2004</u>		<u>/ 2005</u>		2006		2007	<u>F</u>	<u>/ 2008</u>		<u>/ 2009</u>	<u>FY</u>	<u>′ 2010</u>	<u>FY</u>	<u> 2011</u>		TC \$		TOTAL .
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						1
INSTALLATION KITS/TA-SA KITS	8	59.725	4	31.800	3	24.375	1	8.288													16	124.188
INSTALLATION KITS - UNIT COST		7.466		7.950		8.125		8.288														
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST	5	10.137	3	6.100	4	15.200	3	11.700	1	3.182											16	46.319
TOTAL PROCUREMENT		69.862		37.900		39.575		19.988		3.182												170.507

ITEM 33 CLASSIFICATION: UNCLASSIFIED

CLASSIFICAT	ION: UNC	LASSIF	IED																								
P3A (Continue	ed)				INDIVIDUA	L MC	ODIFICATIO	N (Co	ontinued)																		
MODELS OF	SYSTEMS	AFFEC	TED <u>: 688</u> 1	PHAS	E II - IV KITS	3	MODI	FICA	TION TITLE:		_	SSN ACOUS	STICS	3													
INSTALLATIO METHOD OF				AI T																							
ADMINISTRA				ALI		-	PRODUCT	ION	LEADTIME:			12	Мо	nths													
CONTRACT		FY 200		N/A			FY 2003:		3/03		_				FY 200	4:	3/04					FY 2	2005:		3/05		
DELIVERY DA	ATE:	FY 200	02:	N/A			FY 2003:		3/04						FY 200)4:	3/05					FY 2	2005:		3/06		
										(\$ i	in M	illions)															
Cost	:	Pric	r Years		FY 2004		FY 2005		FY 2006	Ė	F	Y 2007		FY 2	800		FY 2009		FY 201	10	F	Y 20	11	To C	omplet	9	Total
		Qty	\$	Qty	\$	Qty	/ \$	Qty	\$	Q	ty	\$	Qty		\$	Qty	\$	Qty	, ;	\$	Qty		\$	Qty	\$	Qty	\$
PRIOR YEAR	RS	5	####																							5	10.137
FY 2002 EQI																										0	0.000
FY 2003 EQI				3	6.100)																				3	6.100
FY 2004 EQI						4	#####	ŧ																		4	15.200
FY 2005 EQU								3	3 11.700	0																3	11.700
FY 2006 EQI										Ì	1	3.182														1	3.182
FY 2007 EQI																										0	0.000
FY 2008 EQI	JIPMENT																									0	0.000
FY 2009 EQI	JIPMENT																									0	0.0
TO COMPLE	TE																										
									•																		
INSTALLAT	TION SCHE	EDULE:																									
	FY 2003		FY 2004	<u>!</u>		FY:	2005		FY 2006			FY 20	007			FY 2	008		FY	2009			FY 2	<u>010</u>			
	& Prior	1	2 3	4	_ 1		3 4	1	2 3		4	1 2	3	4	1		3 4	$\dashv\vdash$	2	3	4	1	2	3	4		TOTAL
ln	5	0	1 1	1	1	1	1 1	1	1 1			0 0	0	1	0	0	0 0			0	0	0	0	0	0		16
Out	5	0	1 1	1	1	1	1 1	1	1 1		0	0 0	0	1	0	0	0 0	0	0	0	0	0	0	0	0		16
																						1	P-3A				
	-						ITE	EM 33	<u></u>								•			CLAS	SIFIC	ATIO	N: UN	CLAS	SIFIE		

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVIDUA	L MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	Phase	e III/IV TI		_	TYP	E MODI	FICATI	ON:	SHIPA	L T		_			MOE	DIFICATION	ON TI	TLE:	SSN	Acoustics		
DESCRIPTION/JUSTIFICATION:																						
Pocurement of Phase III/IV Technology In	sertion	Kits provid	es the	most c	urrent	capabili	ty to pre	eviously	upgra	ded A-RCI	Systen	ns.										
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILEST	ONES	S:								_										
	FY 2	2003 & Prior				Y 2005		2006	<u> </u>	Y 2007	F١	Y 2008		Y 2009		<u> 2010</u>		<u> 2011</u>		<u>TC</u>		TOTAL
	QTY	\$	QTY	\$ 	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E	ļ																					
<u>PROCUREMENT</u>																						
INSTALLATION KITS									11	44.88	12	49.94	11	46.695	12	51.960	10	44.160		0	56	237.639
INSTALLATION KITS - UNIT COST										4.080		4.162		4.245		4.330		4.416				
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST											11	20.500	12	18.360	11	17.167	12	20.796	10	17.318	56	94.141
TOTAL PROCUREMENT								0.000		44.880		70.444		65.055		69.127		64.956		17.318		331.780
	•						ΙΤ	TEM NO.	33										CLA	SSIFICATION	NU :NC	CLASSIFIED

FY08 Unit Cost Includes Design Services

CLASSIFICATION: UNCL	.ASS	IFIED																												
P3A (Continued)					IND	IVIDU	AL M	ODIF	ICATIO	ON (C	ontinued)																			
MODELS OF SYSTEMS A	AFFE	CTED	: Pha	ase III,	/IV T	1		_	MODII	FICAT	ION TITLE	:			SSN	ACOL	JSTIC	s									_			
INSTALLATION INFORMA METHOD OF IMPLEMEN			ION-	SHIP	ALT																									
ADMINISTRATIVE LEAD	IME:	3-4	MOS				-	PRC	DUCT	ION L	EADTIME:					12	Mon			_										
CONTRACT DATES:		2002			_			FY 2											FY 2004		_				_	FY 2005:		-		
DELIVERY DATE:	FY	2002	: <u>N</u>	I/A	-			FY 2	2003:										FY 2004	:	-				-	FY 2005:				
Cost:	1 5	Y 2003	<u>э Т</u>	EV	/ 200	14	ı	FY 20	06		EV	2006			(\$ Y 200	in Millio		FY 20	nno		FY 20	000		FY 2010	ı	FY 2011	ITO C	omplete	1	Total
COSt.	Qty		\$	Г			Qty		\$	Qty	<u> </u>	\$		Qty			Qty		\$	Qty		\$	Qty	\$	Qty		Qty	smplete \$	Qty	\$
FY 2003 EQUIPMENT						•			•			·					Í			,			,	•				·	0	0
FY 2004 EQUIPMENT																													0	0
FY 2005 EQUIPMENT																													0	0.000
FY 2006 EQUIPMENT																													0	0.000
FY 2007 EQUIPMENT																	11		20.500)									11	20.500
FY 2008 EQUIPMENT																				12		18.360							12	18.360
FY 2009 EQUIPMENT																							11	17.167	,				11	17.167
FY 2010 EQUIPMENT																									12	20.796	3		12	20.796
FY 2011 EQUIPMENT																											10	17.318	3 10	17.318
TO COMPLETE																														
INSTALLATION SCH	EDU	LE:					_																							
FY 2005				FY 2	2006			FY	2007			FY 2	800				FY	2009			FY	<u> 2010</u>		<u>FY 2</u>					TC	
1 2		4	1	2	3	4	1	2	3	4	1		2	3	4	1	2	3	4	1	2	3	4	1 2		4				TOTAL
In 0 0		- 11	0	0	0	0	0	0	0	0	3		3	3	2	3		3	3	3	3	3		3 3	3	-			10	56
Out 0 0	0	0	0	0	0	0	0	0	0	0	3		3	3	2	3	3	3	3	3	3	3	2	3 3	3	3			10	56
																										P-3A				
<u> </u>								IT	EM N	 33 														CLASS	SIFIC	ATION: UNC	LASSIF	TED		

CLASSIFICATION:	UNCLASSIFIED
P3A	

EQUIPMENT

DATA

OTHER

OTHER

OTHER

INSTALL COST

TOTAL PROCUREMENT

EQUIPMENT NONRECURRING

TRAINING EQUIPMENT

SUPPORT EQUIPMENT

ENGINEERING CHANGE ORDERS

INTERIM CONTRACTOR SUPPORT

РЗА		INDIVIDUA	L MOI	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	Ice K	eel Avoidance	<u> </u>		TYPE	MODIF	FICATION	ON:	SHIP	ALT			MOD	IFICATION	IT NC	TLE:			SSN	ACOUSTI	cs	
DESCRIPTION/JUSTIFICATION:																						
Funding supports the procurement of Ice I increaxes system performance and reliabi							•										ics Upg	rade Inst	allatio	on). This r	modifi	cation
DEVELOPMENT STATUS/MAJOR DEVEL	.ОРМЕ	NT MILEST	ONES	S:						3												
	FY 2 QTY	003 & Prior \$	<u>FY</u> QTY	<u>2004</u>	<u>FY</u> QTY	<u>′ 2005</u> \$	<u>FY</u> QTY	<u>2006</u> \$	<u>FY</u> QTY	<u>/ 2007</u> \$	<u>F`</u> QTY	<u>/ 2008</u> \$	<u>FY</u> QTY	<u>′ 2009</u> \$	<u>FY</u> QTY	2010 \$	<u>FY</u> QTY	2011 \$	QTY	TC \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)		·		·		·				Ť		•				·						
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS											3	3.300	5	5.610	9	10.296	18	21.006			35	40.212
INSTALLATION KITS - UNIT COST												1.100		1.122		1.144		1.167				0.000
INSTALLATION KITS NONRECURRING																	•					0.000

3.300 7.920 14.221 28.215 14.708 40.149 CLASSIFICATION: UNCLASSIFIED ITEM NO. 33

5

3.925

2.310

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

9.519

35

7.209 18 14.708

CLASSIFICATION: UI P3A (Continued)	NCLASSI	FIED			INDIVID	UAL M	ODIFICATIO	N (Co	ntinued)																
MODELS OF SYSTEM	IS AFFEC	TED:	Ice Ke	eel Avo	oidance		MOD	FICAT	TION TITLE:			SSN ACC	DUSTIC	cs											
INSTALLATION INFOI METHOD OF IMPLEM ADMINISTRATIVE LE. CONTRACT DATES: DELIVERY DATE:	ENTATIC ADTIME:	N: 24 I 2:	MOS	N/A N/A		<u> </u>	PRODUC' FY 2003: FY 2003:	ΓΙΟΝ Ι	LEADTIME: N/A N/A		-		2 Moi	FY	2004: 2004:						FY 2005: FY 2005:		N/A IN/A		_
Cost:		Y 200	3	T .	FY 2004		FY 2005	T	FY 2006	\$)		Millions) Y 2007	1 6	Y 2008		FY 2009		ΕV	2010		FY 2011	To C	omplete		Total
0031.	Qty		\$	Qty	\$	Qty		Qty	\$	(Qty	\$	Qty		Qt		Q		\$	Qty	\$	Qty	\$	Qty	\$
FY 2003 EQUIPMEN	Т																							0	0.000
FY 2004 EQUIPMEN	т																							0	0.0
FY 2005 EQUIPMEN	Т																							0	0.0
FY 2006 EQUIPMEN	Т																							0	0.0
FY 2007 EQUIPMEN	Т																							0	0.0
FY 2008 EQUIPMEN	Т															3 2.3	310							3	2.3
FY 2009 EQUIPMEN	Т																	5	3.925					5	3.9
FY 2010 EQUIPMEN	Т																			9	7.209			9	7.2
FY 2011 EQUIPMEN	Т																					18	14.710	18	14.710
TO COMPLETE																								0	0.000
INSTALLA <u>TION SC</u>	HE <u>DULE</u>	:																							
FY 2003		<u>E)</u>	2005				2006		FY 2007			FY	2008		FY	<u> 2009</u>			FY 2010		FY 20	<u>)11</u>		<u>TC</u>	
& Prior	1	2	3	4	. 1	2	3 4	1	2	3	4	1 2		4 1		2 3 4		1 2	2 3	4	1 2	3	4		TOTAL
In 0	0	0	0	0	0		0 0	0	0	0	0	0 0	0	0 0		3 0 0	· ·	0 5		0	0 9	0	0	18	35
Out 0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 0) ;	3 0 0		0 5	5 0	0	0 9	0	0	18	35
																					P-3A				
							ITEM N	IO. 33											CLASSI	FICA	TION: UNCL	ASS	IFIED		

P3A UNCLASSIFIED		INDIVIDUA	L MOI	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	СОТ	SUWC	_		TYP	E MODII	FICATION	ON:	SHIF	ALT		_	MOE	DIFICATI	ON TI	TLE:			SSN	ACOUST	ICS	
DESCRIPTION/JUSTIFICATION:																						
Funding supports procurement and installa	ation c	of MF ACOM	1MS on	n designa	ated S	SN688 a	and SNI	N 688I p	latform	ıs.												
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	ENT MILEST	ONES	S :																		
		2003 & Prior		<u>/ 2004</u>		<u>/ 2005</u>		2006		<u>/ 2007</u>		<u>/ 2008</u>		<u>/ 2009</u>		<u>/ 2010</u>	<u>F\</u>	<u>/ 2011</u>	O.T.\	TC	0.77.4	TOTAL
	QTY	<u>/ \$</u>	QTY	\$	QIY	\$ 	QTY	\$	QIY	\$	QTY	\$	QIY	\$	QIY	\$	QIY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS											5	5.000	8	8.160	9	9.360	14	14.854			36	37.374
INSTALLATION KITS - UNIT COST												1.000		1.020		1.040		1.061				0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000

OTHER

INSTALL COST

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

12.010 11.430 44.080
CLASSIFICATION: UNCLASSIFIED ITEM NO. 33

6.280

15.640

9 7.209

22.063

14 11.430

3.850

5

5.000

36

0.000

0.000

CLASSIFICATION		LASSI	FIED																								
P3A (Continued)						INDIV	IDUAL	L MO	DIFICATIO	N (Conti	inued)																
MODELS OF SYS	STEMS	AFFE	CTED:	COT	S UW	С			MODI	FICATIO	ON TITLE:			SSN ACO	USTICS	1								_			
INSTALLATION II																											
METHOD OF IMP ADMINISTRATIVE			<u> </u>	HIP A	LT			-	PRODUCT	ION LE	ADTIME:																
CONTRACT DAT		FY 20	004:						FY 2005:	ION LE	ADTIVIE.		-				FY 2006:	-					FY 2007:				
DELIVERY DATE	≣:	FY 20	004:	•					FY 2005:	-							FY 2006:					-	FY 2007:				
													(9	in Millions)												
Cost:			003 & I	Prior		FY2004			FY 2005		FY2006			FY2007	,	F١	/2008		FY 2009		FY 2010		FY 2011		Complete		Total
		Qty	\$		Qty	\$	\$	Qty	\$	Qty	\$		Qty	\$	Qty		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																										0	0.000
FY 2004 EQUIP	MENT																									0	0.000
FY 2005 EQUIP	MENT																									0	0.000
FY 2006 EQUIP	MENT																									0	0.000
FY 2007 EQUIP	MENT																									0	0.000
FY 2008 EQUIP	MENT																	5	3.850)						5	3.850
FY 2009 EQUIP	MENT																			8	6.280					8	6.280
FY 2010 EQUIP	MENT																					9	7.209	9		9	7.209
FY 2011 EQUIP	MENT																							14	11.	43 14	11.430
TO COMPLETE																											
INSTALLATIO	N SCHE	DULE	:																								
FY	2003			FY	2005				FY 2006		FY 2007			FY	2008			FY 20	009		FY 2010		FY 2	011		TC	
&	Prior	1	2	3	4	. _	1	2	3 4	1	2	3	4	1 2	3	4	1	2	3 4	1	2 3	4	1 2	3	4		TOTAL
In	0	0	0	0	0		0	0	0 0	0	0	0	0	0 0	0	0	2	2	1 0	4	2 2	0	3 3	3	0	14	36
Out	0	0	0	0	0	$\sqcup L$	0	0	0 0	0	0	0	0	0 0	0	0	2	2	1 0	4	2 2	0	3 3	3	0	14	36
NOTE: DUE T	TO THE	1 OCT	OBER	2004	AVAIL	_ABILI	TY FO	R 3 9	SHIPS THE	IR INST	ALLATION IS FUN	IDED '	WITH F	Y04 FUND	S.												
																							D 24				
									ITEM N	NO 33											CLASS	IFIC/	P-3A ATION: UNC	ASS	IFIED		

CLASSIFICATION:	UNCLASSIFIED

P3A	INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED:	COTS Frequency Converter	TYPE MODIFICATION:	SHIP ALT	SSN ACOUSTICS

Replaces obsolete legacy equipment that will improve the maintainability of the acoustic system. This modification is applicable to SSN 688I class submarines.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 20 QTY	003 & Prior \$	<u>FY</u> QTY	<u>2004</u>	<u>FY</u> QTY	2005 \$	<u>FY</u> QTY	<u>2006</u> \$	<u>FY</u> QTY	<u>2007</u>	<u>FY</u> QTY	<u>2008</u>	<u>FY</u> QTY	<u>′ 2009</u> \$	<u>FY</u> QTY	2010 \$	<u>F</u> QTY	<u>Y 2011</u> \$	QTY	<u>TC</u> \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)		Ψ		Ψ		Ψ		<u> </u>		Ψ		Ψ		<u> </u>		Ψ		Ψ		Ψ		Ψ
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS															2	600	19	5,814			21	6414.000
INSTALLATION KITS - UNIT COST																300		306				0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																		·				0.000
INSTALL COST																	2	1.000	19	9.690	21	10.690
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.000		0.000		0.000		600		5,815		9.690		6,425
					ΙΤ	EM NO.	33												CLAS	SSIFICAT	ON: l	JNCLASSIFIED

CLASSIFICAT		LASS	IFIED																												
P3A (Continue	ed)					INDIV	/IDUAI	L MO	DIFICAT	ION	(Cont	inued)																			
MODELS OF	SYSTEMS	AFFE	CTE <u>D</u>	: COTS	S Freq	uency	Conve	erter	МС	DIFI	CATIC	ON TITLE:			SSN AC	COUST	ICS											_			
INSTALLATIO	N INFORM	OITAN	N:																												
METHOD OF					LT			_																							
ADMINISTRA				10S	/ ^							ADTIME:		=	12	Month	3		E) / 000	-	.					_	\ 000 7				
CONTRACT DELIVERY DA		FY 2			N/A N/A				FY 2005			N/A N/A							FY 200 FY 200		N/A				_		Y 2007: Y 2007:				_
DELIVERY	HIE.	F1 Z	004.		IN/A	-			F 1 2000	٠.		IN/A						,	F1 200	ю.	IN/F	`			_	Г	1 2007	•			
														(\$ ir	Millions	,															
Cost	t:			Prior		FY200			FY 2005		O. 1	FY2006		0. 1	FY200			FY2			Y 2009			FY 2010		FY:			omplete		Total
		Qty		\$	Qty		\$	Qty	\$		Qty	\$		Qty	\$	C	ty	\$	<u></u>	Qty	\$	- (Qty	\$	Q	ty	\$	Qty	\$	Qty	\$
PRIOR YEAR	RS																													0	0.000
FY 2004 EQ	UIPMENT																													0	0.000
FY 2005 EQI	UIPMENT																													0	0.000
FY 2006 EQ	UIPMENT																													0	0.000
FY 2007 EQ	UIPMENT																													0	0.000
FY 2008 EQ	UIPMENT																													0	0.000
FY 2009 EQI	UIPMENT																													0	0.000
FY 2010 EQI	UIPMENT																									2 1	.000			2	1.000
FY 2011 EQI	UIPMENT																											19	9.69	19	9.690
TO COMPLE	TE																													0	0.000
	'												- U																		
INSTALLA ⁻	TION SCHE	EDULE	:																												
	FY 2003		E	Y 2005				FY 2	2006			FY 2007			E	Y 2008	3	$\exists \lceil$		FY 20	009			FY 2010			E	Y 2011	<u> </u>	<u>TC</u>	
	& Prior	1	2	3	4	. _	1	2	3 4	1	1	2	3	4	1	2	3	4	1	2	3	4	1	2 3		4	1 2	2 3	4		TOTAL
In	0	0	0	0	0		0	0	0 ()	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0		0	0 2	2 0	0	19	21
Out	0	0	0	0	0		0	0	0 ()	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	(0	0 2	2 0	0	19	21
P-3A																															
									ITEM	I NO	. 33													CLA	ASSIF	ICAT	ION: L	JNCLA	SSIFIE)	

CLASSIFICATION:	UNCLASSIFIED
P3A	

MODELS OF SYSTEM AFFECTED:	AI+R (SPVA) Backfit	TYPE MODIFICATION:	SHIP ALT	SSN ACOUSTICS

Replaces obsolete WLR-9 electronics with COTS Open Architecture digital processor integrated with ARCI, on both SSN and SSBN backfit platforms. Active Intercept and Ranging (AI+R) provides ship safety and self protect cability and Situational Awareness and Contact Avoidance capability. Installation funding part of Acoustic Cost Code SA51N (Acoustics Upgrade Installation) Applicable to all SSN, SSGN and SSBN class submarines.

INDIVIDUAL MODIFICATION

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2	003& Prior	<u>F</u>)	2004	<u>F</u>)	2005	<u>FY</u>	2006	<u>F</u>)	<u> 2007</u>	<u>F</u>	<u>/ 2008</u>		2009	FY	2010	<u>F</u>)	<u> 2011</u>		<u>TC</u>		TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS							2	0.96	5	2.45	9	4.491	5	2.545	2	1.04					23	11
INSTALLATION KITS - UNIT COST								0.48		0.49		0.499		0.509		0.52						0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST									2	1.320	5	3.365	9	6.183	5	3.50	2	1.428			23	16
TOTAL PROCUREMENT		0.000		0.000		0.000		0.960		3.77		7.86		8.73		4.54		1.43		0.000		27.284

ITEM NO. 33

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCL	ASSIF	IED																									
P3A (Continued)					I	NDIVIDUA	LM	ODIFICATION	N (Cor	ntinue	ed)																	
MODELS OF SYSTI	EMS A	FFEC	TE <u>D: SF</u>	PVA Ba	ackfit	t		_			М	ODIFIC	CATIO	N TITLE:	-	SSN A	COUSTI	ICS										
INSTALLATION INF				P ALT																								
ADMINISTRATIVE L							_	PRODUC	TION L	.EADT	TIME:		_	18	Mon			_										
CONTRACT DATES		FY 20		N,				FY 2005:		N/A							Y 2006:		N/A			_	FY 2			4/07		
DELIVERY DATE:	ı	FY 20	04:	N,	/A			FY 2005:		N/A						F	Y 2006:	:	N/A			-	FY 2	007:		11/08		
													(\$ in Millions))													
Cost:			03 & Pri			Y2004		FY 2005			FY2006			FY2007	1- 1		2008		FY 2009		FY 2010		FY 20			omplete	L.,	Total
	(Qty	\$	Q	ty	\$	Qty	/ \$	Qty		\$		Qty	\$	Qty		\$	Qty	\$	Qty	\$	Qty		\$	Qty	\$	Qty	\$
PRIOR YEARS																											0	0.000
FY 2004 EQUIPME	ENT																										0	0.000
FY 2005 EQUIPME	ENT																										0	0.000
FY 2006 EQUIPME	ENT																										0	0.000
FY 2007 EQUIPME	ENT												2	1.32	0												2	1.320
FY 2008 EQUIPME	ENT														5		3.365										5	3.365
FY 2009 EQUIPME	ENT																	9	6.183								9	6.183
FY 2010 EQUIPME	ENT																			5	3.500						5	3.500
FY 2011 EQUIPME	ENT																					2		1.428			2	1.428
TO COMPLETE																												
INSTALLATION S	SCHED	ULE:																										
FY 20	05		FY 2	005			FY	2006			FY 2007			FY 2	2008			FY 20	009		FY 2010			FY 20)11		<u>TC</u>	
& Pr	ior	1	2 3		4	1	2	3 4	1		2	3	4	1 2	3	4	1	2	3 4	1	2 3	4	1	2	3	4		TOTAL
In 0		0	0 0		0	0	0	0 0	0		2	0	0	0 5	0	0	0	9	0 0	0	5 0	0	0	0	2	0	0	23
Out 0		0	0 0		0	0	0	0 0	0		2	0	0	0 5	0	0	0	9	0 0	0	5 0	0	0	0	2	0	0	23
								ITEM	NO. 33	<u> </u>											CLASS	SIFICA		P-3A : UNCL	ASSI	FIFD		
								1 1 L IVI		•											02,100							

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVIDUA	L MO	DIFICATION	1																	
MODELS OF SYSTEM AFFECTED:	6881	PHASE IV KI	Т	<u>=</u>	TYP	E MODII	FICAT	ION:	SHIP	ALT		<u>-</u>			MOD	IFICATI	ON TI	ITLE:	SSN	ACOUSTI	ICS	
DESCRIPTION/JUSTIFICATION:	ODLIE	NOAL ADD	A V DD	00500110	AND	LINDED	105.0	NA DA DII	ITV/													
688I A-RCI SA - HF KITS; PROVIDES	SPHER	RICAL ARRA	AY PR	OCESSING	AND	UNDER	ICE C	APABIL	JIY.													
Installation funding part of Acoustic Cost	Code S	SA51N (Aco	ustics	Upgrade Ins	tallatio	on)																
DEVELOPMENT STATUS/MAJOR DEVE	LOPME	ENT MILES	TONE	S:	OPE	VAL 4nd	d QTR	FY02				-										
	FY 2	003 & Prior	1	FY 2004		<u> 2005</u>	<u>F</u>	<u> 2006</u>	FY	2007	<u>F)</u>	2008	<u>F</u>)	2009	FY	2010	FY	<u> 2011</u>		<u>TC</u>	-	TOTAL
	QTY	\$	QTY		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	/ <u>2009</u> \$	QTY	<u>2010</u> \$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
PROCUREMENT																						
INSTALLATION KITS/SA KITS	6	50.288	1	10.812																	7	61.100
INSTALLATION KITS - UNIT COST		8.381		10.812																		
EQUIPMENT NONRECURRING																						0.000
EQUIPMENT																						

EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS 0.000 0.000 DATA TRAINING EQUIPMENT 0.000 SUPPORT EQUIPMENT 0.000 OTHER 0.000 OTHER 0.000 OTHER 0.000 INTERIM CONTRACTOR SUPPORT 0.000

5.800

5.800

10.812

6

15.641

65.929

INSTALL COST

TOTAL PROCUREMENT

ITEM 33 CLASSIFICATION: UNCLASSIFIED

21.441

7

CLASSIFICATIO	ON: UNC	LASSIF	FIED																										
P3A (Continued))				INDIV	DUAL	MOI	DIFICATION	(Con	tinued)																			
MODELS OF SY	YSTEMS	AFFEC	TED <u>: 6881 I</u>	PHASE	IV KITS	3		MODIF	ICATI	ON TITLE:			SSN	ACOU	STICS	3										_			
INSTALLATION																													
METHOD OF IM				ALT																									
ADMINISTRATI CONTRACT DA		TIME: FY 20		_ _{N/A}				PRODUCTION FY 2003:	ON L	EADTIME: N/A				12	2 Moi		FY 20	<u>_</u>	03/	0.4				ΓV	2005:		N/A		
DELIVERY DAT		FY 20		N/A				FY 2003: FY 2003:		N/A							FY 20		03/				-		2005:		N/A		
DELIVER DAT	· - ·	1120	<i>02.</i>	14/71			_	1 1 2000.		14/7							1120	04.	00/	00			-	• •	2000.		14// (
Cost:		D.	ior Years		FY 2004	<u>, l</u>		Y 2005	1	FY 2006	(;	\$ in M	illions) FY 20		1	FY 20	00	1	FY 2009			Y 2010	1	FY 2	011	To C	omplete	J	Total
COSI.		Qty	\$	Qty			Qty	\$	Qty	\$		Qty	FIZ	\$	Qty		\$	Qty	\$	Qt		\$	Qty		\$	Qty	\$	Qty	\$
		Qty	<u> </u>	Giy		`	z ty	Ψ	Qty	Ψ		Qij		Ψ	Qıy		Ψ	Qty	Ψ		,	Ψ	Qty		Ψ	Giy	Ψ	Qty	Ψ
PRIOR YEARS	3	6	15.64	-1																								6	15.641
FY 2002 EQUII	PMENT																											0	0.000
FY 2003 EQUII	PMENT																											0	0.000
FY 2004 EQUII	PMENT						1	5.800																				1	5.800
FY 2005 EQUII	PMENT																											0	0.000
FY 2006 EQUI	PMENT																											0	0.000
FY 2007 EQUI	PMENT																											0	0.000
FY 2008 EQUII	PMENT																											0	0.0
FY 2009 EQUII	PMENT																											0	0.0
TO COMPLETI	Έ																												
INSTALLATIO	ON SCHE	DULE:																											
	Y 2003		FY 2004	<u> </u>		_	-Y 2			FY 2006				FY 2					2008			FY 2009			FY 2	2010		<u>TC</u>	
	& Prior	1	2 3	4	- _	1	2	3 4	1	2	3	4	1_	2	3	4	1	2	3 4	4	1	2 3	4	1	2	3	4		TOTAL
In	6	0	0 0	0		0	0	1 0	0	0	0	0	0	0	0	0	0	0	0 (0 ()	0 0	0	0	0	0	0	0	7
Out	6	0	0 0	0	ᆜᆫ	0	0	1 0	0	0	0	0	0	0	0	0	0	0	0 () ()	0 0	0	0	0	0	0	0	7
																									D 04				
								ITF	M 33													CLAS	SIFIC	CATIO	P-3A ON: UN	ICI AS	SIFIFD	1	

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVIDUA	L MO	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	TSMS	3		-	TYP	E MODIF	ICAT	ION:	SHIP	ALT		_			MOD	IFICATION	IT NC	TLE:	SSN	ACOUST	ICS	
DESCRIPTION/JUSTIFICATION:																						
TSMS allows the crew the capability of de	tecting	and localiza	aing o	wnship g	enera	ited noise	e while	e at sea i	n any I	ocation.												
Installation funding part of Acoustic Cost (Code S	SA51N (Acou	ustics	Upgrade	Insta	llation) A	pplica	able to al	I SSN,	SSGN a	nd SS	SBN subn	narine	es.								
DEVELOPMENT STATUS/MAJOR DEVEL	.ОРМЕ	NT MILEST	ONES	3:								_										
	FY 2	003 & Prior \$	<u>F\</u> QTY	<u>/ 2004</u> \$	<u>F\</u> QTY	<u>Y 2005</u>	<u>F\</u> QTY	<u>/ 2006</u> \$	<u>FY</u> QTY	<u>′ 2007</u> \$	<u>F\</u> QTY	<u>/ 2008</u>	<u>F`</u> QTY	<u>/ 2009</u> \$	<u>FY</u> QTY	<u>′ 2010</u> \$	Y 201	<u>FY 2011</u> I \$	QTY	<u>TC</u> \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)																,				·		·
RDT&E																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS	9	7.191	5	4.000	9	7.299	7	5.950	9	7.758	3	2.637	6	5.382	4	3.660	4	3.712			56	47.589

RDT&E																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS	9	7.191	5	4.000	9	7.299	7	5.950	9	7.758	3	2.637	6	5.382	4	3.660	4	3.712			56	47.589
INSTALLATION KITS - UNIT COST		0.799		0.800		0.811		0.850		0.862		0.879		0.897		0.915		0.928				
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST			9	9.900	4	6.420	9	14.400	8	11.200	9	12.789	3	4.275	6	8.580	4	5.800	4	5.810	56	79.174
TOTAL PROCUREMENT						13.611		20.350		18.958		15.426		9.657		12.240		9.512		5.810		105.564
			-					ITEM	33										CLA	SSIFICATION	ON: UN	CLASSIFIED

CLA	SSIFICA	TION: UNCL	ASSIFIE	D																												
РЗА	(Continu	ed)					IND	DIVIDUAL	MOD	DIFICATION	ON (C	ontinued	l)																			
MOE	ELS OF	SYSTEMS A	FFECTE	D: T	SMS					МО	DIFIC	ATION TI	TLE:			SSN A	cous	TICS	S									-				
		ON INFORMA			SHIP ALT																											
ADM	IINISTRA	TIVE LEADT	IME:	24	MOS					PRODU	CTION	N LEADTI	ME:				12	Mon	nths													
	ITRACT		FY 20			N/A				FY 2003		03/03							FY 200			03/04					Y 2005:		03/05			
DEL	IVERY D	ATE:	FY 20	02:		N/A				FY 2003	:	03/04							FY 200	4:		03/05			_	FΥ	Y 2005:		03/06			
															(\$ in	Millions)																
	Co	ost:		Prior	Years			Y 2004		Y 2005			FY 2006			FY 2007			FY 2008			2009		FY 2010			2011		omplet	е		Total
			Qty		\$	Qty		\$	Qty	\$	Q	ty	\$		Qty	\$		Qty	\$	Qty		\$	Qty	\$	Qt	у	\$	Qty		\$	Qty	\$
FY	2003 EQ	UIPMENT				g	9	9.9																							9	9.900
FY	2004 EQ	UIPMENT							4	6.4	20																				4	6.420
FY	2005 EQ	UIPMENT										9		14.400																	9	14.400
FY	2006 EQ	UIPMENT													8	1.	1.200														8	11.200
FY	2007 EQ	UIPMENT																9	12.78	19											9	12.789
FY	2008 EQ	UIPMENT																		3	3	4.275									3	4.275
FY	2009 EQ	UIPMENT																					6	8.5	80						6	8.580
FY	2010 EQ	UIPMENT																								4	5.800				4	5.800
FY	2011 EQ	UIPMENT																										4		5.810	4	5.810
	INSTAL	LATION SCH	IEDULE:				ı							_						ı	1					1						
	FY 2003	3	FY	2004			FY	2005			<u>F</u>	Y 2006			FY	2007			FY 2008			FY 20	009		<u>F</u>	Y 201	<u>10</u>		F	2011		
	& Prio	r 1	2	3	4	1	2	3	4	1 2	<u> </u>	3	4	1	2	3	4	1	2 3	4	1	2	3	4 1	2	3	3 4	1	2	3	4	TC TOTAL
In	0	0	1	4	4	0	0	2	2	2 3	. :	2	2	2	2	2	2	3	3 3	0	1	1	1	2	2	2	2 0	2	2	0	0	4 56
Out	0	0	1	4	4	0	0	2	2	2 3		2	2	2	2	2	2	3	3 3	0	1	1	1	2	2	2	2 0	2	2	0	0	4 56
																											P-3A					
										- 1	TEM 3	33												CLA	SSIFIC	CATIC	ON: UNCL	ASSI	FIED			

CLASSIFICATION: UNC	LASSIFIED
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MODELO OF OVOTEM AFFEOTED	4 OTI) (E INITEDOEDT & DANIGINIO I/ITO	TYPE MODIFICATIONS	OLUB ALT	MODIFICATION TITLE	CONTROLICE	

MODELS OF SYSTEM AFFECTED: ACTIVE INTERCEPT & RANGING KITS TYPE MODIFICATION: SHIP ALT MODIFICATION TITLE: SSN ACOUSTICS

DESCRIPTION/JUSTIFICATION:

P3A

Replaces obsolete WLR-9 electronics with COTS Open Architecture digital processor integrated with ARCI, on both SSN and SSBN.

INDIVIDUAL MODIFICATION

Active Intercept and Ranging (Al+R) provides ship safety and self protect capability and Situational Awareness and Contact Avoidance capability. Installation funding part of Acoustic Cost Code SA51N (Acoustics Upgrade Installation) Applicable to all SSN, SSGN and SSBN submarines.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2	003 & Prior	<u>F</u>	Y 2004	F	<u> 2005</u>	<u>F`</u>	<u> 2006</u>	<u>FY</u>	2007	<u>F</u>	2008	<u>F`</u>	<u> 2009</u>	<u>F</u>	2010		2011		<u>TC</u>		TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS (INTERCEPT)	9	6201	5	4000	9	6.003	7	5.110	9	6.705	3	2.271	6	4.638	4	3.164	4	3.224			56	10232
INSTALLATION KITS - UNIT COST		689		800		0.667		0.730		0.745		0.757		0.773		0.791		0.806				
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT (SENSOR)																						0.000
EQUIPMENT (SENSOR) - UNIT COST																						
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST			9	2.300	4	1.520	9	3.492	8	3.168	9	3.627	3	1.233	6	2.520	4	1.712	4	1.800	56	21.372
TOTAL PROCUREMENT				4002		7.523		8.602		9.873		5.898		5.871		5.684		4.936		1.800		4052

ITEM 33

CLASSIFICATION: UNCLASSIFIED

	ASSIFICA ⁻		NCLA	SSIFIED)																									
P3/	A (Continu	ed)					INDIVID	UAL	MOI	DIFICATIO	ON (C	ontinued)																		
МС	DELS OF	SYSTEM	IS AF	FECTI A	CTIVE	E INT	TERCEP	T&R	RANG	GING KITS	3	MODIFICATION	ON TITLE:			SS	SN ACO	USTICS								_				
IN:	STALLATIO	ON INFO	RMAT	ION.																										
	THOD OF				HIP A	LT																								
	MINISTRA				_							LEADTIME:			1:	2 Mc	onths													
	NTRACT					N/A				FY 2003:		03/03						FY 2004:		03/04					FY 2005:		03/0			
DE	LIVERY D	AIE:	FY.	2002:	<u>r</u>	N/A				FY 2003:		03/04						FY 2004:		03/05					FY 2005:		03/0	J6		
															(\$ in Millio	ns)														
	Cost	:		rior Year			FY 2004			FY 2005		FY 2006			FY 2007		FY 20	800		FY 2009		FY 2010			FY 2011		Compl	lete		Total
			Qty	\$		Qty	\$	(Qty	\$	Qty	/ \$		Qty	\$	Qty	/	\$	Qty	\$	Qty	\$	- (Qty	\$	Qty		\$	Qty	\$
F	Y 2003 EQ	UIPMEN	 T			9	2.:	300																					9	2.300
	Y 2004 EQ								4	1.52	0																		4	1.520
	Y 2005 EQ									1102		9	3.492																9	3.492
	Y 2006 EQ								İ					8	3.168	3													8	3.168
	Y 2007 EQ													Ĭ	0.10		a .	3.627											9	3.627
	Y 2008 EQ																	0.027	3	1.233									3	1.233
	Y 2009 EQ																		Ť	1.200	6	2.5	520						6	2.520
	Y 2010 EQ																				Ĭ		,_0	4	1.71				4	1.712
	Y 2011 EQ																							Ť		Δ		1.800	4	1.800
																												1.000		1.000
- '	J OOMI L													1	l		1			1	1	l				-1			<u> </u>	
1 -	INSTALLA	TION SC						_	_				1			-				1						٦.				
	FY 2003		FY 2				FY 200					2006			<u>2007</u>			2008		FY 2					<u>2010</u>	Ш.	_	Y 2011		
-	& Prior	1			-+	1_	2 3	<u> </u>	4	1 2	3		1	2	3 4	1		3	4	1 2	3	4 1			3 4	1	2	3	4	TOTAL
In C	0	2			_	1	1 1		1	3 2	2		2	2		3		3	0		0	0 2			2 0	0		2	0	
Οι	0	2	3	2	2	1	1 1		1	3 2	2	2	2	2	2 2	3	3	3	0	2 1	0	0 2		2	2 0	0	2	2	0	52
<u> </u>																									P-3A					

ITEM NO. 33 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED РЗА INDIVIDUAL MODIFICATION MODELS OF SYSTEM AFFECTED: Legacy Replacement TYPE MODIFICATION: NON-SHIPALT MODIFICATION TITLE: SSN Acoustics DESCRIPTION/JUSTIFICATION: Installation funding part of Acoustics BLI 214700. Funding supports the replacement of obsolete UYK-43, HF Active components, obsolete and unreliable transmit group hardware, supports integration of the TB-33 array and frees cabinet space for potential future upgrades. Applicable to SSN 688I submarines. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2002 & Prior FY 2007 FY 2008 FY 2009 FY 2005 FY 2006 FY 2010 FY 2011 QTY \$ QTY \$ QTY QTY \$ QTY \$ QTY \$ QTY \$ QTY \$ QTY \$ QTY QTY FINANCIAL PLAN (IN MILLIONS) RDT&E **PROCUREMENT** 9 16.524 8 INSTALLATION KITS 5 9.000 14.984 1.910 23 42.418 **INSTALLATION KITS - UNIT COST** 1.836 1.873 1.91 1.800 INSTALLATION KITS NONRECURRING **EQUIPMENT** EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT OTHER OTHER OTHER INTERIM CONTRACTOR SUPPORT 5 8.500 9 15.489 8 13.952 1.764 23 INSTALL COST 39.705

9.000

25.024

TOTAL PROCUREMENT

ITEM NO. 33 CLASSIFICATION: UNCLASSIFIED

15.862

1.764

CLASSIFICA ^T	TION: UNC	LASSIF	IED																							
P3A (Continu	ed)				INDIV	/IDUAL	. MO	DIFICATIO	N (Cor	ntinued)																
MODELS OF	SYSTEMS	AFFEC	TED <u>: Le</u> g	gacy Re	placem	nent		=		MODIFICATION TITI	LE:			SSI	N ACC	DUSTICS							_			
INSTALLATION METHOD OF ADMINISTRA CONTRACT I DELIVERY D	IMPLEME ATIVE LEAD DATES:	NTATIO	N: SH 24 MOS 02:					PRODUCT FY 2003: FY 2003:	TON L	EADTIME: 03/03 03/04		_	12	Mor		FY 2004: FY 2004:		03/04 03/05			-	FY 2005: FY 2005:		03/05 03/06		<u> </u>
												C	\$ in Millions)												
Cos	st:	Pric	r Years		FY 200	04		FY 2005		FY 2006			Y 2007	ĺ	FY 2	2008		FY 2009		FY 2010		FY 2011	То (Complete		Total
		Qty	\$	Qty	;	\$	Qty	\$	Qty	\$	Qty	у	\$	Qty		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2003 EQ	UIPMENT																								0	0.000
FY 2004 EQ	UIPMENT																								0	0
FY 2005 EQ	UIPMENT																								0	0.000
FY 2006 EQ	UIPMENT																								0	0.000
FY 2007 EQ	UIPMENT													5		8.500									5	8.500
FY 2008 EQ	UIPMENT																9	15.489							9	15.489
FY 2009 EQ	UIPMENT																		8	13.952					8	13.952
FY 2010 EQ	UIPMENT																				1	1.764	4		1	1.764
FY 2011 EQ	UIPMENT																								0	0.000
TO COMPLI	ETE																									
INSTALLA	TION SCHI	EDULE:																								
	FY 2003		FY 200	05			FY 2	2006		FY 2007			FY 20	800			FY 2	2009		FY 2010		FY 2	2011		TC	
	& Prior	1	2 3	3 4		1	2	3 4	1_	2	3 4		1 2	3	4	1	2	3 4	1	2 3	4	1 2	3	4		TOTAL
In	0	0	0 0	0		0	0	0 0	0	0	0 0		2	3		3	3	3 0	2	2 2	2	1 0	0	0		23
Out	0	0	0 0	0	L	0	0	0 0	0	0	0 0		2	3		3	3	3 0	2	2 2	2	1 0	0	0	0	23
																						P-3A				

РЗА		INDIVIDUA	L MODI	FICATI	ON																	
MODELS OF SYSTEM AFFECTED:					TYPI	E MODI	FICATI	ON:	NON	N-SHIPAL	_T	=,			MOD	IFICATION	IT NC	TLE:	SSN	Acoustic	s	
DESCRIPTION/JUSTIFICATION:	AI&R	SENSORS (SPVA Se	ensors) l	Non-Bac	kfit			_													
Installation funding part of Acoustic BLI 2	14700.																					
The SPVA sensor is the only sensor that	provide	es 360 degre	ee cover	age and	l Passi	ve Broa	dband	(PBB) ra	ınging.	Applical	ble to	SSN 688	3 and	688I sub	marine	es.						
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	ENT MILEST	ONES:									-										
		2002 & Prior				2005		2006		2007		2008		Y 2009		2010		2011		TC _		TOTAL
	QTY	′ \$ 	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS							5	2.400	9	4.410	3	1.497	6	3.054	4	2.080					27	13.441
INSTALLATION KITS - UNIT COST								0.480		0.490		0.499		0.509		0.52						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER								_														
OTHER								_												_		

2.400 ITEM NO. 33 5.115 CLASSIFICATION: UNCLASSIFIED

6 4.200

6.280

2.856

2.856

27

18.504

2.061

3

9 6.057

7.554

3.330

7.740

0.000

OTHER

INSTALL COST

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

CLASSIFICA		CLAS	SIFIED)																							
P3A (Continu	ed)				INDIV	/IDUAL	MOD	DIFICATION	(Co	ntinued)																	
MODELS OF	SYSTEMS	AFF	ECT <u>E</u>): AI&	R SE	NSORS	S (Nor	n-BACKFMC	DDIFI	ICATION TITLE:			SSN	ACOU	STIC	s								_			
INSTALLATIO																											
METHOD OF					ARD			DDODI	IOTI	ON 1 5 4 DTIME				40													
ADMINISTRA CONTRACT			2002:					FY 200		ON LEADTIME: 2/01				12	Mon		FY 2004	.					FY 2005:		2/03		
DELIVERY D			2002:					FY 200		2/02							FY 2004					-	FY 2005:		2/03		
													/ f	in Millio								-					
Cos	t·	Pric	or Years	2			F۱	Y 2005	1	FY 2006			(ֆ FY 20		ns)	FY 2	008		FY 2009	F	Y 2010		FY 2011	To C	Complete		Total
		Qty		Qty	\$	Q		\$	Qty			Qty			Qty		\$	Qty		Qty	\$	Qty		Qty		Qty	\$
PRIOR YEA	RS																									0	0.000
FY 2004 EQ	UIPMENT																									0	0.000
FY 2005 EQ	UIPMENT																									0	0.000
FY 2006 EQ	UIPMENT											5		3.330												5	3.330
FY 2007 EQ	UIPMENT														9		6.057									9	6.057
FY 2008 EQ	UIPMENT																	3	2.061							3	2.061
FY 2009 EQ	UIPMENT																			6	4.200					6	4.200
FY 2010 EQ	UIPMENT																					4	2.856	6		4	2.856
FY 2011 EQ	UIPMENT																									0	0.000
TO COMPLI	ETE																										
INSTALLA	TION SCH	E <u>DUI</u>	LE:																	_							
	FY 2003		<u>FY 2</u>	005			FY 2	2006		FY 2007				FY 20	800			<u>FY 2</u>	2009		FY 2010		FY 2	<u> 2011</u>		<u>TC</u>	
	& Prior	1	2 3	3	4	1 .	2	3 4	1	2	3	4	1	2	3	4	1	2	3 4	1	2 3	4	1 2	3	4		TOTAL
In	0	11	0 0		0	0	0	0 0			0	0	3	3	3	0	3	0	0 0	2	2 2	0	2 2	0	0	0	27
Out	0	0	0 0	0	0	0	0	0 0	3	2	0	0	3	3	3	0	3	0	0 0	2	2 2	0	2 2	0	0	0	27
																							D 0.4				
								ITEM N	10 33	3											CLAS	SIFIC	P-3A CATION: UI		SSIFIFD		

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	L MO	DIFICA	ΓΙΟΝ																	
MODELS OF SYSTEM AFFECTED:	BQS-	-15A EC-20		_	TYP	E MODIF	FICAT	ION:	SHIP/	\LT		_			MOD	IFICATI	ION TI	TLE:	SSN	Acoustics	;	
DESCRIPTION/JUSTIFICATION:																						
Procures AN/BQS-15 EC-20 Precision Uno	derwa	iter Maping (PUMA	A) kits fo	r SNN	688 Clas	s Sub	marines	Provi	ides capab	ility fo	or a ship	to sat	elv mane	euver t	hrough	and ex	rit a min	efield.			
				,							,			,								
DEVELOPMENT STATUS/MAJOR DEVELO	OPME	ENT MILEST	ONE	S :								_										
	FY 2 QTY	2003 & Prior \$	<u>F`</u> QTY			<u>Y 2005</u> \$	<u>F`</u> QTY	<u>/ 2006</u> \$	<u>F</u> QTY	<u>Y 2007</u> \$		<u>Y 2008</u> ' \$		<u>Y 2009</u> \$		<u>2010</u> \$		<u>2011</u>	QTY	<u>TC</u> \$	QTY	TOTAL \$
FINIANICIAL DI ANI (INI MILLI IONIC)	QIY	<u> </u>	QIY	\$	QII		QIY	<u>Ф</u>	QII		QIY		QIY	<u> </u>	QIY	Ф	QII	Ф	QII		QII	Φ
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS					2	1.50	6	4.59	10	7.80	2	1.59	4	3.248							24	18.730
INSTALLATION KITS - UNIT COST						0.750		0.765		0.780		0.796		0.812								
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																					\perp	
OTHER																						

5.840 ITEM NO. 33 | 0.000 | 32.846

CLASSIFICATION: UNCLASSIFIED

2.708

2.708

0.000

24

15.616

6

3.828

11.628

10 6.500

8.092

2

1.330

4.578

2

1.250

INTERIM CONTRACTOR SUPPORT

INSTALL COST

TOTAL PROCUREMENT

CLASSIFICATION: UN	ICLA	ASSIFIED)																				
P3A (Continued)				INDIVID	UAL N	ODIFICATI	ON (Co	ontinued)															
MODELS OF SYSTEM	S AF	FFECT <u>E</u>): BQS-1	15A EC-2	0	MODI	FICATI	ON TITLE:		SSN ACC	USTI	cs								_			
INSTALLATION INFORMETHOD OF IMPLEM			NON-SH	ΙΡΔΙ Τ																			
ADMINISTRATIVE LEA				II ALI	_	PRODUC1	ION LE	EADTIME:		12	Мо	nths											
CONTRACT DATES:		Y 2002:		_		FY 2003:							FY 2004:					_	FY 2005:				
DELIVERY DATE:	F	Y 2002:	N/A	-		FY 2003:							FY 2004:					-	FY 2005:				
										(\$ in Million	ns)												
Cost:		FY 2003		Y 2004		FY 2005		FY 2006		FY 2007		FY 2			FY 2009		FY 2010		FY 2011		Complete	1	Total
	Qt	ty	\$	\$	Qty	\$	Qty	\$	Qty	\$	Qty		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2003 EQUIPMEN	г																					0	0
FY 2004 EQUIPMEN	Г																					0	0
FY 2005 EQUIPMEN	Г						2	1.250)													2	1.250
FY 2006 EQUIPMEN	Г								6	3.82	3											6	3.828
FY 2007 EQUIPMEN	Г										10		6.500									10	6.50
FY 2008 EQUIPMEN	Г													2	1.330							2	1.33
FY 2009 EQUIPMEN	Γ															4	2.708					4	2.708
FY 2010 EQUIPMEN	Г																					0	0
FY 2011 EQUIPMEN	Г																					0	0
TO COMPLETE																							
INSTALLATION SC	HED	ULE:																					
FY 2003		<u>FY</u>	2004		<u>F`</u>	<u>/ 2005</u>		FY 2006		<u>FY</u>	2007			FY 20	800		FY 2009		<u>FY</u>	<u> 2010</u>		<u>TC</u>	
& Prior	\dashv \vdash			4		3 4	1	23	_ 4	<u>1</u> 2	<u>3</u>	<u>4</u>	1		3 4	1	2 3	4	1 2	3	4		TOTAL
In 0	(0 0 0	0	0 (0	0 0	0	0 1	1	1 1	2	2	3	3	3 1	1	1 0	0	1 1	1	1	0	24
Out 0	(0 0 0	0	0 (0	0 0	0	0 1	1	1 1	2	2	3	3	3 1	1	1 0	0	1 1	1	1	0	24
																			P-3A	١			
•						ITEM N	O. 33										CLAS	SIFIC	CATION: U	NCLA	SSIFIED		

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDUAI	MOI	DIEICAT	TION																	
F3A		INDIVIDUAL	L IVIOI	DIFICA	ION																	
MODELS OF SYSTEM AFFECTED:	SSN2	21 PHASE IV I	KIT (S.	A501)	TYP	E MODIF	ICAT	ION:	SHIP#	\LT		=			MOD	IFICATI	ON TI	TLE:	SSN	Acoustics	3	
DESCRIPTION/JUSTIFICATION:																						
INSTALLATION FUNDING CITED FOR FY	Y 2002	2 & FY 2003	IS FO	R DESI	GN SE	ERVICES	(SHII	PALT PA	ACKAG	E DEVE	LOPM	ENT);										
A-RCI PHASE IV KIT; ARCI-(V)5 KITS IN	CORP	ORATE ARG	CI PH.	ASE II-I	V CAP	ABILITY	FOR	THE SE	AWOL	F CLASS	SUB	MARINE										
DEVELOPMENT STATUS/MAJOR DEVELO	ОРМЕ	NT MILESTO	ONES	:								_										
	FY 2	2003 & Prior	F۱	2004	F`	Y 2005	F۱	Y 2006	F۱	<u> 2007</u>	F۱	Y 2008	F۱	<u>/ 2009</u>	FY	2008	FΥ	<u>/ 2009</u>		<u>TC</u>		<u>TOTAL</u>
	QTY	\$	QTY	\$			QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS	2	16.383			1	10.100															3	26.483
INSTALLATION KITS - UNIT COST		8.192				10.100																
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						

1

7.500

INSTALL COST

TOTAL PROCUREMENT

AP

3.135

19.518

3.100

3.100

6.200

16.300

 0.000
 0
 38.918

 ITEM NO. 33
 CLASSIFICATION: UNCLASSIFIED

0

3

CLASSIFICATION	N: UNC	LAS	SIFIED	ı																								
P3A (Continued)					INDIVID	UAL	MODIFICATION	ON (C	Continued)																			
MODELS OF SYS	STEMS	AFF	ECTED	: SSN	N21 PHA	SE IV	KIT MODII	FICAT	TION TITLE:			SSI	N ACO	USTI	cs										_			
INSTALLATION I METHOD OF IMF ADMINISTRATIV	PLEMEN	TAT	TION: S		/ARD	_	PRODUCT	ION I	LEADTIME:				12	Мо	nths													
CONTRACT DAT	-			N/A			FY 2003:		2/01							FY 200		_						FY 2005		2/03		
DELIVERY DATE	=:	FΥ	2002:	N/A	Ą		FY 2003:		2/02							FY 200	14:	_						FY 2005		2/04		
											•	<u> </u>	in Millic	ns)														
Cost:		Pric Qty	r Years	Qty	FY 2004 \$	Qty	FY 2005	Qty	FY 2006		Qty	FY 20	007 \$	Qty	FY 2	008 \$	Qty	FY 2009)	F Qty	Y 201		F Qty	Y 2011 \$	To (Complete \$	Qty	Total \$
		Qty	Ψ	Qty	Ψ	Qty	/ Φ	Qty	Ψ		Qty		Ψ	Qty		Ψ	Qty	Ψ		Qty	Ψ	'	Qty	Ψ	Qty	Ψ	Qty	Ψ
PRIOR YEARS				1	3.10	00																					1	3.100
FY 2002 EQUIP	MENT																										0	0.000
FY 2003 EQUIP	MENT					1	6.200																				1	6.200
FY 2004 EQUIP	MENT																										0	0.000
FY 2005 EQUIP	MENT										1		7.500														1	7.500
FY 2006 EQUIP	MENT																										0	0.000
FY 2007 EQUIP	MENT																										0	0.000
FY 2008 EQUIP	MENT																										0	0.000
FY 2009 EQUIP	MENT																										0	0.000
TO COMPLETE																												
INSTALLATIO	N SCHE	DUI	_E:									_																
	2003		FY 20				Y 2005		FY 2006				FY 2				FY 2				FY 2				2010		<u>TC</u>	
	Prior	-	2 3		-		3 4	1	2	3	4	1	2	3	4	1		3	4	1_	2	3	4	1 2		4		TOTAL
In .	0	1	0 0		- 11			0		0	0	1	0	0	0	0	0		0	0	0	0	0	0 0	0	-	0	3
Out	0	1	0 0	0	0 1	0	0 0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	3
																								P-3	A			
							ITEM NO	D. 33	3													CLAS	SIFI	CATION:	UNC	LASSIFIED		

CLASSIFICATION:	UNCLASSIFIE	ח

P3A	INDIVIDUAL MODIFICATION	ON			
MODELS OF SYSTEM AFFECTED: SSE	BN PHASE II KITS	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS

ARCI Phase II provides Towed Array processing improvements. Procurements end in FY05, after FY05 688 systems are reused and refurbished for installation.

Installation funding part of Acoustic Cost Code SA51N (Acoustics Upgrade Installation)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 20	003 & Prior	<u>F</u>	2004	<u>F</u>	2005	FY	2006	<u>F</u>	2007	<u>F</u>)	2008	FY	2009	FY	2010	FY	2011		<u>TC</u>		<u>TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS			1	3.100	2	4.000	3	6.000	3	6.120	2	4.162	1	2.122	1	2.165					13	27.669
INSTALLATION KITS - UNIT COST				3.100		2.000		2.000		2.040		2.081		2.122		2.165						0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																					0	0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST					1	1.600	2	3.264	3	3.996	3	4.020	2	3.000	1	1.767	1	1.802			13	17.682
TOTAL PROCUREMENT		0.000		3.100		5.600		9.264		10.116		8.182		5.122		3.932		1.802		0.000		45.316

ITEM NO. 33

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNC P3A (Continued)	CLASSIF	IED			INDIVIDU	AL MC	DIFICATION	l (Co	ntinued)																
MODELS OF SYSTEMS	AFFEC	TED <u>:</u>	SSBN					•	TION TITLE:		3	SSN ACOL	JSTI	cs											
	NTATIO	N <u>:</u> 24 N 2:	10S _I	N/A N/A		<u> </u>	PRODUCT FY 2003: FY 2003:	ION L	LEADTIME: N/A N/A			_	Moi		FY 200 FY 200		2/04 2/05				FY 2005: FY 2005:		2/05 2/06		_
Contr		Y 200	,		Y 2004	-	FY 2005		FY 2006	(\$		illions)		-V 20	00		7 2009		EV 2010		EV 2011	T- C	amplata	1	Total
Cost:	Qtv		\$	Qty	- Y 2004 \$	Qty	\$ \$	Qty	FY 2006 \$	Q		/ 2007 \$	Qty	FY 20		Qtv	<u> </u>	Qtv	FY 2010 \$	Qty	FY 2011 \$	Qty	omplete \$	Qty	Total \$
FY 2003 EQUIPMENT	Qty		Ψ	Qiy	Ψ	Qty	Ψ	Qiy	Ψ	9	ity	Ψ	Qty		Ψ	Qty	Ψ	Qty	Ψ	Qiy	Ψ	Qty	Ψ	0	0.000
FY 2004 EQUIPMENT						1	1.600																	1	1.600
FY 2005 EQUIPMENT								2	3.2	64														2	3.264
FY 2006 EQUIPMENT											3	3.996												3	3.996
FY 2007 EQUIPMENT												0.000	3		4.020									3	4.020
FY 2008 EQUIPMENT																2	3.000							2	3.000
FY 2009 EQUIPMENT																		1	1.767					1	1.767
FY 2010 EQUIPMENT																				1	1.802			1	1.802
FY 2011 EQUIPMENT																								0	0.000
TO COMPLETE																								0	0.000
INSTALLA <u>TION SCH</u>	EDULE:																								
FY 2003		FY	2005			FY 2	<u> 2006</u>		FY 2007			FY 20	800			FY 20	009		FY 2010		FY 20	<u>)11</u>		<u>TC</u>	
& Prior	1	2	3	4	1	2	3 4	1	2 3		4	1 2	3	4	1	2		1	2 3	4	1 2	3			TOTAL
In 0	0	1	0	0	0	1	1 0	1	2 0		0	1 2	0	0	1	1	0 0	1	0 0	0	0 1	0	0	0	13
Out 0	0	1	0	0	0	1	1 0	1	2 0		0	1 2	0	0	1	1	0 0	1	0 0	0	0 1	0	0	0	13
							ITEM N	<u>) 33</u>											CI ASSI	FICA	P-3A TION: UNC I	224	IFIFD		

CLASSIFICATION:	UNCLASSIFIED
P3A	

MODELS OF SYSTEM AFFECTED:	SSGN PHASE IV KITS (SA104)	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS

SSGN CONVERSION; THE INSTALLATION FUNDING CITED IN FY 2004 AND FY 2005 IS FOR DESIGN SERVICES (SHIPALT PACKAGE DEVELOPMENT).

INDIVIDUAL MODIFICATION

PROVIDES A-RCI Phase I-IV ON SSGN CONVERSIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

		2003 & Prior		2004		2005		2006		2007		2008		2009		2010		2011		TC .		TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS					2	31.000	2	31.000													4	62.000
INSTALLATION KITS - UNIT COST						15.500		15.500														
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																					0	0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST				1.000	AP	2.900	2	9.400	2	8.296											4	21.596
TOTAL PROCUREMENT				1.000		33.900		40.400		8.296												83.596

ITEM NO. 33 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UN	CLASSI	FIED																						
P3A (Continued)				INDIVIDU	AL MO	DDIFICATIO	N (Co	ontinued)																
MODELS OF SYSTEMS	S AFFEC	TED: SS	GN PHA	SE IV KIT	S	MODI	FICA	TION TITLE:			SSN ACO	USTI	CS								_			
INSTALLATION INFOR			P ALT																					
ADMINISTRATIVE LEA					_	PRODUCT	ION	LEADTIME:			12	Mo	nths											
CONTRACT DATES:	FY 20		N/A			FY 2003:		N/A					FY 20		N/A					2005:		3/05		
DELIVERY DATE:	FY 20	02:	N/A			FY 2003:		N/A			_		FY 20	004:	N/A			_	FY	2005:		3/06		
									(\$		llions)													
Cost:		or Years		FY 2004		FY 2005	<u> </u>	FY 2006			Y 2007		FY 2008		Y 2009		FY 2010		FY 20			omplete	0. 1	Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	(Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	/	\$	Qty	\$	Qty	\$
PRIOR YEARS																							0	0.000
FY 2002 EQUIPMENT																							0	0.000
FY 2003 EQUIPMENT																							0	0.000
FY 2004 EQUIPMENT																							0	0.000
FY 2005 EQUIPMENT					AP	2.900	2		9.400														2	12.300
FY 2006 EQUIPMENT										2	8.296												2	8.296
FY 2007 EQUIPMENT																							0	0.000
FY 2008 EQUIPMENT																							0	0.000
FY 2009 EQUIPMENT																							0	0.000
TO COMPLETE																								
INSTALLATION SCH	EDULE:																							
FY 2003		FY 200			_	<u> 2005</u>		FY 2006			<u>FY 2</u>			FY 20			FY 200			FY 2			<u>TC</u>	
& Prior	1	2 3		_ 1		3 4	1	2	3	4	1 2	3			3 4	1	2 3			2	3	4		TOTAL
In 0	0	0 0	0	0	0	0 0	0	1	1	0	0 0	1	1 0	0	0 0	0	0 0	0	0	0	0	0	0	4
Out 0	0	0 0	0	0	0	0 0	0	1	1	0	0 0	1	1 0	0	0 0	0	0 0	0	0	0	0	0	0	4
																				P-3A				
						ITEM NO	D. 33										CL	ASSIFI	CATIO		NCLA	SSIFIED		

CLASSIFICATION:	UNCLASSIFIED
CLASSIFICATION.	UNCLASSIFIED

P3A	INDIVIDUAL MODIFIC				
MODELS OF SYSTEM AFFECTED:	OA-9070 A/B UPGRADE	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS

PROVIDES NECESSARY TECHNICAL CONVERSION TO ACCOMMODATE TB-29 SERIES ARRAYS. Installed on SSN688, SSN688I, and SSN21 Class submarines.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2	003 & Prior \$	<u>FY</u> QTY	<u>2004</u> \$	<u>FY 2005</u> QTY \$		<u>FY 2006</u> QTY \$		<u>FY 2007</u> QTY \$		<u>FY 2008</u> QTY \$		<u>FY 2009</u> QTY \$		<u>FY 2010</u> QTY \$		FY 2011 QTY \$		TC QTY \$		QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)	Q. i	Ψ		Ψ		Ψ		Ψ		Ψ		Ψ				<u> </u>				Ψ		Ψ
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS	27	18.188	5	2.413	1	0.510															33	21.111
INSTALLATION KITS - UNIT COST		0.674		0.483		0.510																0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT	1	0.669																			1	0.669
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST	22	34.523	4	6.229	4	4.734	3	4.490													33	49.976
TOTAL PROCUREMENT		52.711		8.642		5.244		4.490												0.000		71.087

ITEM NO. 33 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCL	ASSI	FIED																											
P3A (Continued)						INDIVIDUA	L M	ODIFICATION	N (Con	tinued)																				
MODELS OF SYST	ODELS OF SYSTEMS AFFECTE <u>D: OA 9070 A/B UPGRADE</u> MODIFIC								FICATI	ATION TITLE: SSN ACOUSTICS											_									
INSTALLATION INF					_																									
METHOD OF IMPLEMENTATION: SHIP ALT ADMINISTRATIVE LEADTIME: 24 MOS PRODUCTION								ION I F	EADTIME:			6-8	Mon	the																
CONTRACT DATES: FY 2004: 2/04 FY 2005:							1011 22	2/05		-	6 - 8 Months FY 2006: FY 2007:																			
DELIVERY DATE: FY 2004: 10/04 FY 2005:									10/05						FY 2006	6:	-						FY 20	007:				<u> </u>		
		=>/.=						=1/		=1/2222		(\$ in Millions)				,	= 1 / 2 2		1				= 1		1				
Cost:		Qty	FY 2003 & Prior Qty \$			Y2004 \$	Qty	FY 2005 v \$	Qty	FY2006 \$		Qty	FY2007	Qty	FY2008 \$		Qty	FY 2009 2tv \$		Qty	FY 2010 tv \$		Qty	FY 2011 \$		Qty	omplete \$	Qty	Total \$	
		Qty	Ψ		Qty	¥	Qty	γ Ψ	Qty	Ψ		Qty	Ψ	Qty		Ψ	Qty		Ψ	Qty	4	,	Qty		Ψ	Qty	Ψ	Qty	Ψ	
PRIOR YEARS		22	34.5	523	4	6.229	9 1	1 1.337	7																			27	42.089	
FY 2004 EQUIPMI	ENT						3	3.397	7 2		2.993																	5	6.390	
FY 2005 EQUIPM	ENT								1		1.497																	1	1.497	
FY 2006 EQUIPM	ENT																											0	0.000	
FY 2007 EQUIPM	ENT																											0	0.000	
FY 2008 EQUIPM	ENT																											0	0.000	
FY 2009 EQUIPMI	ENT																											0	0.000	
FY 2010 EQUIPM	ENT																											0	0.000	
FY 2011 EQUIPM	ENT																											\perp		
TO COMPLETE																														
INSTALLATION	SCHE	DULE	:																											
FY 20	003	3 <u>FY 2004</u> <u>FY 2005</u>							FY 2006		FY 2	2007	007		FY 2008				FY 2009		<u>F</u>		FY 2	Y 2010		<u>TC</u>				
& P	rior	1	2 3	3	4	1	2	3 4	1	2	3	4	1 2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL	
In 2			1 3		0	0	3		0	1	1	1	0 0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	33	
Out 2	2	0	1 3	3	0	0	3	0 1	0	1	11	1	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	
NOTE: DUE TO	THE 1	1 OCT	OBER 2	004 A	AVAIL	ABILITY FO	OR 3	SHIPS THEI	R INST	TALLATION IS FU	JNDED V	VITH I	FY04 FUND:	S.																
																								ı	P-3A					
								ITEM N	IO. 33												(CLASSI	FICA	ATION:	UNC	LASSI	FIED			

P3A		INDIVIDUA	L MOI	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	OK-5	42 TB-29 Con	versior	ı		TYPE M	ODIFI	CATION:		SHIP AL	_ <u>T</u>					SSN AC	OUST	ΓICS	-			
DESCRIPTION/JUSTIFICATION:																						
PROVIDES NECESSARY TECHNICAL	CONVE	RSION TO A	CCOI	MMODA	TE TE	3-29 SER	IES AF	RRAYS. I	or the	SSBN (Class	Submari	ne.									
DEVELOPMENT STATUS/MAJOR DEV	ELOPME	NT MILEST	ONES	:						•												
	FY 2	003 & Prior	FY	2004	F۱	Y 2005	FY	2006	F١	2007	F١	Y 2008	FΥ	2009	FY	2010	FY	2011		<u>TC</u>		TOTAL
	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	
FINANCIAL PLAN (IN MILLIONS)																						
THANOIAL I LAN (IN MILLIONO)																						
RDT&E																						0.000
NDIGE						1																0.000

	QII	φ	QII	Ψ																		
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS									1	0.251	2	0.512	1	0.261							4	1.024
INSTALLATION KITS - UNIT COST										0.251		0.256		0.261								0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST									AP	0.721	1	1.500	2	2.598	1	1.249					4	6.068
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.972		2.012		2.859		1.249		0.000		0.000		7.092

| 0.000 | 0.000 | 0.972 | 2.012 | 2.859 | 1.249 | 0.000 | 0.000 | 7.092 | |
| ITEM NO. 33 | CLASSIFICATION: UNCLASSIFIED

CLASSIFICAT		LASS	IFIED																											
P3A (Continue	ed)					INDIV	IDUAL	L MO	DIFICATI	ON (Conti	inued)																		
MODELS OF	SYSTEMS	AFFE	CTE <u>D</u>	: OK-5	42 TB-	-29 Co	nversi	on	МО	OIFIC	CATIC	ON TITLE:			SSN AC	OUSTIC	s													
INSTALLATIO	ON INFORM	OITA	N:																											
METHOD OF					LT			_																						
ADMINISTRA				OS								ADTIME:		_	12 l	Months														
CONTRACT		FY 2			N/A	-			FY 2005			N/A						FY 200			N/A			_	FY 20			1/07 1/08		
DELIVERY D	AIE:	FY 2	J04:		N/A	-			FY 2005		-	N/A						FY 200)6:	<u>r</u>	N/A			-	FY 20	307:	-	1/08		
														(\$ ir	Millions)															
Cos	t:	FY 2				FY2004			FY 2005			FY2006			FY2007			FY2008		FY 200		_	FY 2010		Y 201			mplete		Total
		Qty		\$	Qty	9	\$	Qty	\$	(Qty	\$		Qty	\$	Qty	_	\$	Qty	9	5	Qty	\$	Qty	\$		Qty	\$	Qty	\$
PRIOR YEA	RS																												0	0.000
FY 2004 EQ	UIPMENT																												0	0.000
FY 2005 EQ	UIPMENT																												0	0.000
FY 2006 EQ	UIPMENT																												0	0.000
FY 2007 EQ	UIPMENT														0.7	721	ı	1.500)										1	2.221
FY 2008 EQ	UIPMENT																		2		2.598								2	2.598
FY 2009 EQ	UIPMENT																					1	1.249						1	1.249
FY 2010 EQ	UIPMENT																												0	0.000
FY 2011 EQ	UIPMENT																												0	0.000
TO COMPLE	ETE																												0	0.000
INSTALLA [*]	TION SCH	EDULE	:																											
	FY 2003		<u>F</u>	Y 2004				FY 2	2005			FY 2006			<u>E</u>	Y 2007			FY 2	2008			FY 2009			FY	2010		<u>TC</u>	
	& Prior	1	2	3	4	. IL	1	2	3 4		1	2	3	4	1 2	2 3		4 1	2	3	4	1	2 3	4	1	2	3	4		TOTAL
In	0	0	0	0	0		0	0	0 0		0	0	0	0	0 0	0	(0 0	1	0	0	0	1 1	0	0	1	0	0	0	4
Out	0	0	0	0	0		0	0	0 0		0	0	0	0	0 0	0	(0 0	1	0	0	0	1 1	0	0	1	0	0	0	4
																										P-3				
									ITEM	NO.	33												CLAS	SIFIC	ATION	I: UN	ICLAS	SIFIED)	

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDUA	I MOI	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	Fiber	Optic Receiv	er/Sign	al Path		TYPE N	//ODIFI	CATION	:	SHIP A	L <u>T</u>			-		SSN AC	OUS	TICS	=			
DESCRIPTION/JUSTIFICATION:																						
PROVIDES NECESSARY TECHNICAL CO	ONVE	RSION TO A	ACCO	MMODA	TE FIE	BER OP	TIC AR	RAYS to	all SS	SN class	subm	arines.										
DEVELOPMENT STATUS/MAJOR DEVELO	OPME	ENT MILEST	ONES	3:																		
	FY 2	2003& Prior	F۱	Y 2004	F۱	<u>/ 2005</u>	FY	2006	F۱	2007	F`	Y 2008	F۱	<u>/ 2009</u>	F١	/ 2010	F۱	<u> 2011</u>		<u>TC</u>		TOTAL
	QTY		QTY		QTY		QTY			\$		′\$							QTY		QTY	
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS											4	8.020	4	8.184	6	12.516	6	12.762			20	41.482
INSTALLATION KITS - UNIT COST												2.005		2.046		2.086		2.127				0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																					0	
SUPPORT EQUIPMENT																					+ 0	
JUPPUK I EQUIPIVIEN I	1	1	1	1	1	1		1	1	1	1	1	1	Ī	l	1	1	l	1 1		1 '	0.000

0.000

0.000

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0.000

8.020

OTHER

OTHER

OTHER

INSTALL COST

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

0.000

ITEM NO. 33 CLASSIFICATION: UNCLASSIFIED

3.800

16.316

6

5.814

18.576

6

5.930

5.930

20

3.724

11.908

0.000

0.000

0.000

0.000

19.268

60.750

CLASSIFICATION: UN	ICLAS	SIFIED)																							
P3A (Continued)					INDIVIDU	JAL M	ODIFICA	ATION	(Cont	inued)																
MODELS OF SYSTEM	S AFF	ECTE <u>C</u>	: Fiber	Optic	Receiver/	Signal	Path			М	ODIFIC	CATIC	N TITLE:	_	SSN A	COUST	ICS						_			
INSTALLATION INFOR	MATIC	ON:																								
METHOD OF IMPLEM				LT																						
ADMINISTRATIVE LEA			/IOS							ADTIME:			18	Mon		E) / 0000	_	. 1/4				E) / 0007		4/07		
CONTRACT DATES: DELIVERY DATE:		2004: 2004:		N/A N/A			FY 20			N/A N/A						FY 2006: FY 2006:		N/A N/A			-	FY 2007: FY 2007:		4/07 11/08		
DELIVERT DATE.	гі	2004.		IN/A	-		F1 20	05.	-	IN/A						F1 2000.	•	IN/A			•	F1 2007.		11/06		
				•								(\$ in Millions)													
Cost:		2003 8			FY2004	01	FY 200		01	FY2006		01:	FY2007	100		2008		FY 2009		FY 2010		FY 2011		omplete	01:	Total
	Qty	_	\$	Qty	\$	Qt	у \$)	Qty	\$		Qty	\$	Qty		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																									0	0.000
FY 2004 EQUIPMENT	Г																								0	0.000
FY 2005 EQUIPMENT	г																								0	0.000
FY 2006 EQUIPMENT																									0	0.000
FY 2007 EQUIPMENT	г																								0	0.000
FY 2008 EQUIPMENT	Г																4	3.724							4	3.724
FY 2009 EQUIPMENT	г																		4	3.800					4	3.800
FY 2010 EQUIPMENT	Г																				6	5.814			6	5.814
FY 2011 EQUIPMENT	г																						6	5.930	6	5.930
TO COMPLETE																										
INSTALLATION SCI	HEDUL	.E:																								
FY 2003		E	Y 2004			FY	2005			FY 2006			FY 2	2007			FY 2	008		FY 2009		FY 2	010		TC	
& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1 2	3	4	1	2	3 4	1	2 3	4	1 2	3	4		TOTAL
In 0	0	0	0	0	0	C	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0	1 2	1	0 1	2	1	12	20
Out 0	0	0	0	0	0	C	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0	1 2	1	0 1	2	1	12	20
							IT	EM NO	7 22											CLASS	IEIC/	P-3A ATION: UNC I	V & & C	EIED		

BUDGET PRODUCTION SCHEDULE, P-21															DAT						bruary 2006)					
APPROPRIATION/BUDGET ACTIVITY											Wea	por	Syster	n	P-1	ITE	EM I	NOI	MEN	NCL	ATURE						
OTHER PROCUREMENT, NAVY/BA2: CO	MMUNIC	ATIC	NS .	AND	ELE	CTRO	VICS	3											S	SN .	ACOUSTICS	S/H2SA					
						Product	tion I	Rate (I	Per Y	r)		F	Procure	men	t Le	adti	me	s									
Item		Manu me a		rer's ocatio	n	MSR	1-8	8-5	MAX		ALT P		ALT A Oct			nitia g P			eoro		To	otal				Jnit eas	
TB-16 Array	Ches	apeal	ke S		es	8		24	36*	_									<u> </u>								
ITEM / MANUFACTURER	F	s	Q	D	В	2003	3	F	ISCAI	L YE	EAR 2004 CALEN		YEAR 200)4						J	FISCAL YEAR 20 CALENDAR		5				
	Y	V C	T Y	E L	A L	O N C O	D E	Α	E /	M A R	A M P A R Y	J	J A	S E	O C T	N O V	D E	J A N	F E B	M A R	A P	M A Y	J	J U	A U G	S E	B A L
TB-16 Array/Chesapeake Sciences	2003	N	2	0	2								1	1		•	Ŭ	- '				•			Ŭ		0
TB-16 Array/Chesapeake Sciences	2004	Ν	17	0	17		Α										1	1	1	1	1	1	1	1	1	1	7
TB-16 Array/Chesapeake Sciences	2005	N	7	0	7																	A					8
					t			F	ISCAL	L YE	EAR 2006										FISCAL YEAR 20	007					
ITEM / MANUFACTURER	F	S	Q	D	В	2005						DAR	YEAR 200								CALENDAR		7				
	Y	V C	T Y	E L	A L	O N C O T V	E C		E /	M A R	A M P A R Y	J U	J A U U L G	S E P	O C T	< 0 Z	D E C	J A N	F E B	M A R	P	M A Y	N N	J J	A U G	S E P	B A L
						1 1	1			1	1				·	·	Ū					•			Ŭ		0
TB-16 Array/Chesapeake Sciences	2005		7		7						1	1	1 1	1	1	1											0
					1			F	ISCAL	L YE	EAR 2008									ı	FISCAL YEAR 20	009				<u> </u>	
ITEM / MANUFACTURER	F	S	Q	D	В	2007							YEAR 200							,	CALENDAR		9		,		1
	Y	V C	T Y	E L	A L	O N C O T V	D E C	Α	E	M A R	A M P A R Y	N N	J A U U L G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	P	M A Y	N U J	J L	A U G	S E P	B A L
										ŀ																	

Remarks: * - Based on 2 shifts and minor additional test equipment.

DD Form 2445, JUL 87
Previous editions are obsolete
P-1 SHOPPING LIST
ITEM NO 33

Exhibit P-21 Production Schedule

BUDGET PRODUCTION SCHEDULE, P-2																ATE						y 2006						
APPROPRIATION/BUDGET ACTIVITY											W	eapoi	n Sys	tem	Р	-1 I	ГЕМ	NC	MEI	NCL	ATUR	RE						
OTHER PROCUREMENT, NAVY/BA2: CO	MMUNIC	ATIO	NS A	AND	FIF	CTRO	NIC:	s				•	•						s	SN	ACOU	ISTICS/H	2SA					
						Produc			(Per	Yr)			Proc	ırem	ent l	eac	ltime	es		<u> </u>								
Itom		Manut me ai				MSR				Ť	ALT	Prior	AL.		er	Init		F	eor			Total					Jnit	
Item TB-16 Next Generation	TBD	me ai	ia Lo	Jeane)[]	8		6-5 24	M/ 36		to C	JCL I		ict i	+'	viig	PLI	IV	lfg F	<u>LI</u>		Total				IVI	eas	ure
																											_	
		l		I	ī				FISC	AI Y	EAR 20	004			+						FISCAL Y	YEAR 2005						
ITEM / MANUFACTURER	F	s	Q	D	В	200	3					ENDAF	YEAR	2004								LENDAR YE	AR 2005					1
	Y	V C	T Y	E L	A L	O N C O	D E	J A N	F E B	M A R	Р	M J A U	J	U	S () N	DE	J A N			A P R	M A		J U	J J	A U G	SE	B A L
					t	ı v	C	IN	В	K	K	T IN		G		V	C	IN	Ь	K	K	T		IN	_	G		
		-																								₩		
									FISC	AL YI	EAR 20	06			+			-			FISCAL Y	YEAR 2007				_	_	
ITEM / MANUFACTURER	F	S	Q	D	В	200	5				CAL	ENDAF	YEAR	2006							CA	LENDAR YE	AR 2007					
	Y	V C	T Y	E L	A L	O N C O		J A N	F E B	M A R	Р	M J A U Y N		U	S (E () N	E	J A N				M A Y		ZCC	J	A U G	S E P	B A L
										- 1	IX			Ü							I	'		IN				
TB-16 Next Generation- TBD	2006	N	5	0	5						Α													1	1	1	1	1
TB-16 Next Generation- TBD	2007	N	17	0	5													Α								—	<u> </u>	5
																										+-	_	
							-		FISC	AL YI	EAR 20	08						_			FISCAL Y	YEAR 2009						
ITEM / MANUFACTURER	F	S	Q	D	В	200				_		ENDAF	YEAR									LENDAR YE	AR 2009					
	Υ	V C	T Y	E L	A	O N C O	D E	J A	F E	M A		M J A U	J	A U	S C) N	D E	J A		M A	A P	M A		J	J	A U	S	B A
		C		L	_	C O	C	N	В	R		YN	L	G	P -		C	N	В	R	R	Ϋ́		N	L	G	P	L
TB-16 Next Generation- TBD	2006	N	11	5	6		0	0																				0
TB-16 Next Generation- TBD	2007	N	17	0	17			1	2	1	2	1 2	1	2	1 2	2 1	1	1								<u></u>	<u></u>	0
TB-16 Next Generation- TBD	2008	N	17	0	17			Α				\perp						1	_	1	2	1		2	1	2	1	4
TB-16 Next Generation- TBD	2009	N	17	0	17													Α										17

Remarks: * - Based on 2 shifts and minor additional test equipment.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST 311/244 ITEM NO 33

ITEM NO 33 Exhibit P-21 Production Schedule

	BUD	GET ITE	M JUSTIFICATION SHEE	ĒΤ		DATE:					
			P-40					FEBRU/	ARY 2006		
APPROPRIATION/BUE	DGET ACTIVIT	ΓΥ				P-1 ITEM NOM	MENCLATURE				
OTHER PROCUREM	IENT, NAVY	BA-2 CO	MMUNICATIONS & ELECT	TRONIC EQUIP	MENT	UNDERSEA	WARFARE SU	IPPORT EQUI	PMENT / BLI 2	217600/5	
Program Element for C	ode B Items:					Other Related	Program Eleme	nts			
	Prior	ID								То	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY											
COST											
(In Millions)			\$15.7	\$15.5	\$9.2	\$11.8	\$11.5	\$12.3	\$13.0	CONT	\$89.0
SPARES COST											
(In Millions)			\$0.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	CONT	\$0.1

Space Information Command and Control Programs (N71)

Undersea Warfare - Decision Support System (USW-DSS) - Cost Codes VM601/835/TBD:

The Undersea Warfare - Decision Support System (USW-DSS), program provides an integrated, near-real time, net-centric USW (ASW & MIW) Command and Control (C2) capability across multiple platforms (Surface, SSN, P-3, Theater, MIW and Surveillance); capable even with low bandwidth or intermittent inter-platform communications. USW-DSS will provide a critical C2 capability for the Sea Combat (SCC), Theater USW (TUSWC), Mine Warfare (MIWC), and Antisubmarine Warfare (ASWC) Commanders. In so doing it provides the Fleet with full capability to plan and conduct USW operations and enables alignment of sensors for exploitation of the environment, allocation of resources, optimization of operations and risk, and vulnerability assessment contributing to increased lethality and survivability through improved asset allocation, optimized sensor placement and situational awareness. This capability will provide USW Commanders with an expanded net-centric USW toolset reaching across all Carrier Strike Group (CSG) platforms (CVNs, CG/DDGs, SSNs, IUSS, P-3s) as well as supporting shore nodes and theater assets (TSC, Training, NOPF, CTF, MIW/LCS/LCC). Funding identified provides for the procurement and installation of USW-DSS capability on CSG platforms and supporting shore nodes via permanent ship alterations (SHIPALTs) FY06-11, and will support periodic technology refresh of USW-DSS hardware/software to keep capabilities concurrent with leading COTS technology. USW-DSS is being designed to be a software-only application on the Global Command and Control System-Maritime version 4.X (GCCS-M 4.X) infrastructure and subsequent migration as a maritime application under Joint Command and Control (JC2). The program is included in the Littoral and Maritime Ops Mission Capability Package (MCP) under the JC2 construct.

Surface Programs (N76)

Surface Sonar Windows and Domes - Cost Codes VMCA1/401/834:

AN/SQS-26/53 Sonar Dome Rubber Windows (SDRW) are installed in CG47 and DDG51 class ships. This program provides emergency replacement wire-reinforced, pressurized rubber acoustic windows which experience failure due to corrosion, fatigue, and impact in the splice region. The SDRW significantly improves the surface ship sonar performance by reducing flow-induced self-noise, and by providing increased source level receiving and sensitivity resulting from reduced attenuation. AN/SQS-56 Sonar Rubber Domes (SRD) and SCD-56 Composite Keel Domes are installed in FFG7 class ships. This program provides emergency replacement SRD for AN/SQS-56 active/passive duct sonar systems. Production engineering support provides technical evaluation, failure analyses, implementation of the inwater one-side backscatter xray program, GFE refurbishments, and field service engineering. Complete Engineering design work, provide material tests and studies required to begin fabrication of the second Sonar Dome Rubber Window. Provide drawings, configuration management information, confirm new design, incorporate lessons learned, complete additional testing. Construct sub-element to confirm single stage cure.

Distributed Engineering Center for Torpedo Defense (Congressional Add) - Cost Code VM101:

FY06 budget includes a Congressional Add to expand access of the Distributed Engineering Center (DEC) to other Anti Torpedo users. The DEC is a network Product Data Management Tool that functions as a management tool for developmental programs whereby associated users can archive data associated with projects and networked activities and access the data to facilitate coordination.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 Item No. 34 Page No. 1

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40		FEBRUARY 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY BA-2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	UNDERSEA WARFARE SUF	PPORT EQUIPMENT / BLI 217600/5
Program Element for Code B Items:	Other Related Program Element	ts

Submarine Programs (N77)

Acoustic Communications - Cost Codes VM201/832/902:

Acoustic Communications provides two-way and one-way acoustic communications equipment for submarines and surface ships. The equipment consists of: (1) AN/WQC-2/2A, a stand alone, single side band, general purpose, voice, continuous wave, multiple tone communication for surface ships, submarines, and some shore activities; (2) AN/WQC-6, which provides long range coded signaling from surface ASW ships to attack submarines when interfaced with the AN/SQS-53 and AN/BQQ-5; (3) AN/BQC-1(), a stand-alone emergency voice and signal beacon for submarines, and (4) technical improvements (Engineering Changes) to acoustic communication equipment. Funding will provide for continued procurement of both Probe Alert (AN/WQC-6) improvements and AN/WQC-2A Engineering Changes plus associated production engineering support and consulting services for the SSN 21, SSN 688, SSBN 726, DDG 51, CG 47, MHC 51, MCM 1, CVN 65, ARS 50, FFG 7, and CVN 68 class ships and submarines.

Aircraft Carrier Programs (N78)

Aircraft Carrier Tactical Support Center (CV-TSC) - Cost Codes VM128/301/833/903:

The CV-TSC of the Carrier Combat Direction System (CDS) is the focal point of supply for force ASW/SUW functions. The system supports the multi-mission, tactical deployment of embarked airborne weapon systems (S-3B and SH-60 Helicopters) by providing mission planning, in-flight support and post mission assessment/intelligence collection. CV-TSC provides real time and post mission analysis of relayed or taped acoustic and non-acoustic signals to support CV/CVN USW Self Defense. The system consists of digital computers, commercial workstation displays, mass memories, plotters, acoustic analysis equipment and interface devices. The CV-TSC furnishes timely evaluated USW and SUW information to the Officer in Tactical Command as inputs to the decision making process. Procurement of non-developmental engineering changes to maintain system IT-21 supportability and interoperability with embarked aircraft, airborne sensors, and shipboard interfaces will continue. Naval Undersea Warfare Center (NUWC), Division Keyport has been designated as the Alteration Installation Team (AIT) for all items. Installations will be accomplished at NUWC, the CV-TSC training site at Fleet Combat Training Center Atlantic (FCTCL) Dam Neck, VA, CV-TSC Ashore training site, and on board CV-63 through CVN-75.

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 Item No. 34 Page No. 2

Description Continue Contin	BUDGET ITEM JUSTIF	ICATIO	N SHEET	FOR AGGREGATED	ITEMS		DATE:						
Description Continue Code Vests FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Complete Total	P-40a									FEBRUA	RY 2006		
Procurement Items	APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOM	IENCLATURE					
Procurement Items	OTHER PROCUREMENT, NAVY BA	-2 COM	MUNIC	ATIONS & ELECTRO	ONIC EC	QUIPMENT	UNDERSEA V	VARFARE SU	PPORT EQUI	PMENT / BLI	217600/5		
Space Information Command and Control Programs (N77)	,											To	
Control Programs (NT)	Procurement Items	Code	Years	FY:	2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
Control Programs (NT)													
USW-DSS	I •												
- Hardware		۸			7 5 4 6	6 106	2.475	4 600	2 970	2 000	4 10E	cont	cont
- Production Engineering (2,576) (2,128) (1,049) (1,788) (1,381) (1,389) (1,411) cont. cont. Installation Support A		A											
Installation Support											(, ,		
Surface Ship Programs (N76) SQS-2675 SDRW	- Floudction Engineering				(2,370)	(2,120)	(1,049)	(1,700)	(1,361)	(1,309)	(1,411)	cont.	COIII.
SQS-26/3 SDRW A 6,922 4,356 3,394 4,059 4,679 5,296 5,435	Installation Support	Α			-	1,853	1,006	1,658	1,522	1,727	1,943	cont.	cont.
SQS-26/3 SDRW A 6,922 4,356 3,394 4,059 4,679 5,296 5,435													
- Hardware	Surface Ship Programs (N76)												
Production Engineering		Α											
- CONG ADD: Dist Eng Ctr for Torp Def. SUB-TOTAL 6,922 6,066 3,394 4,059 4,679 5,296 5,435 cont. CONT. SUB-TOTAL 6,922 6,066 3,394 4,059 4,679 5,296 5,435 cont. CONT. SUB-TOTAL A 378 398 395 409 417 427 439												cont.	cont.
SUB-TOTAL 6,922 6,056 3,394 4,059 4,679 5,296 5,435 cont. cont.	- Production Engineering				(1,131)	(1,140)	(1,145)	(1,184)	(1,214)	(1,131)	(1,148)	cont.	cont.
SUB-TOTAL 6,922 6,056 3,394 4,059 4,679 5,296 5,435 cont. cont.	- CONG ADD: Dist Eng Ctr for Torp Def.					1.700							
Submarine Programs (N77)						.,							
ACOUSTIC COMMUNICATIONS A 378 398 395 409 417 427 439 Hardware (268) (295) (290) (293) (295) (294) (297) cont.	SUB-TOTAL				6,922	6,056	3,394	4,059	4,679	5,296	5,435	cont.	cont.
ACOUSTIC COMMUNICATIONS A 378 398 395 409 417 427 439 Hardware (268) (295) (290) (293) (295) (294) (297) cont.													
- Hardware (268) (295) (290) (293) (295) (294) (297) cont. cont Production Engineering (40) (33) (35) (46) (52) (63) (72) cont. cont. cont. Consulting Services (70) (70) (70) (70) (70) (70) (70) (70)													
- Production Engineering (40) (33) (35) (46) (52) (63) (72) cont. cont. Consulting Services (70) (70) (70) (70) (70) (70) (70) (70)		Α											
Consulting Services (70) (70) (70) (70) (70) (70) (70) (70)					(/								
SUB-TOTAL 378 398 395 409 417 427 439 cont. cont.					(- /	(/	\ /		(- /	\ /			
Aircraft Carrier Programs (N78) SQQ-34A(V)5 CV-TSC A 703 784 Cont. cont. - Hardware (649) (719) - Production Engineering (54) (65) Helo Link Controllers 441 452 461 477 495 cont. cont. - Hardware (441) (452) (461) (477) (495) EC Technical Insertion 299 313 322 323 326 cont. cont. - Hardware (274) (286) (293) (294) (297) - Production Engineering (25) (27) (29) (29) SUB-TOTAL 703 784 740 765 783 800 821 cont. cont. Installation Support 185 191 194 197 201 205 209 cont. cont.	Consulting Services				(70)	(70)	(70)	(70)	(70)	(70)	(70)	cont.	cont.
Aircraft Carrier Programs (N78) SQQ-34A(V)5 CV-TSC A 703 784 Cont. cont. - Hardware (649) (719) - Production Engineering (54) (65) Helo Link Controllers 441 452 461 477 495 cont. cont. - Hardware (441) (452) (461) (477) (495) EC Technical Insertion 299 313 322 323 326 cont. cont. - Hardware (274) (286) (293) (294) (297) - Production Engineering (25) (27) (29) (29) SUB-TOTAL 703 784 740 765 783 800 821 cont. cont. Installation Support 185 191 194 197 201 205 209 cont. cont.	SUB-TOTAL				378	398	395	409	417	427	439	cont.	cont.
SQQ-34A(V)5 CV-TSC A 703 784 Cont. cont. cont. - Hardware (649) (719) - Cont.													
- Hardware (649) (719)	Aircraft Carrier Programs (N78)												
- Production Engineering (54) (65) (65) (65) (65) (65) (65) (65) (65		Α										cont.	cont.
Helo Link Controllers					. /								
- Hardware					(54)	(65)							
EC Technical Insertion 299 313 322 323 326 cont. cont Hardware (274) (286) (293) (294) (297) - Production Engineering (25) (27) (29) (29) (29) SUB-TOTAL 703 784 740 765 783 800 821 cont. cont Cont Installation Support 185 191 194 197 201 205 209 cont. cont.												cont.	cont.
- Hardware (274) (286) (293) (294) (297) (
- Production Engineering (25) (27) (29) (29) (29) (29) (29) (29) (29) (29												cont.	cont.
SUB-TOTAL 703 784 740 765 783 800 821 cont. cont.													
Installation Support 185 191 194 197 201 205 209 cont. cont.	- Production Engineering						(25)	(27)	(29)	(29)	(29)		
	SUB-TOTAL				703	784	740	765	783	800	821	cont.	cont.
GRAND TOTAL 15.734 15.478 9.204 11.776 11.481 12.343 12.952 cont cont	Installation Support				185	191	194	197	201	205	209	cont.	cont.
	GRAND TOTAL				15,734	15,478	9,204	11,776	11,481	12,343	12,952	cont.	cont.

CLASSIFICATION:

UNCLASSIFIED

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	WEAPONS SYSTEM C	OST AN	ALYSIS			Weapon Sy	stem							DATE:	
	P-5						1							FEBRUA	RY 2006
	RIATION/BUDGET ACTIVITY							OMENCLATUI			DMENT / DI	1.047000/5			
Otner Pr	rocurement, Navy / BA-02	1 1	TOTAL 000	T IN THOUG	SANDS OF DO		UNDEKS	EA WARFA	KE SUPPL	KI EQUI	PINENI/BI	_1 21/600/5)		
			TOTAL COS	I IN THOUS	ANDS OF DO	LLAKS									
COST	ELEMENT OF COST	ID	FY 2004					FY 2005			FY 2006			FY 2007	
CODE		Code	and Prior			I = o .							•		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
/M101	Surface Ship Torpedo Defense (SSTD) Dist Eng Ctr for Torp. Def (CONG ADD)	А										1,700			
/M201	Acoustic Communications (ACOMMs)	А					6	45	268	6	49	295	6	48	290
/M301	Aircraft Carrier Tactical Support Center (CV-TSC)	А					1	649	649	1	719	719	4	179	715
/MCA1	Surface Sonar Windows and Domes (Congressional Add)	А							2,500						
/M401	Surface Sonar Windows and Domes	А					3	1,097	3,291	3	1,072	3,216	2	1,125	2,249
/M601	USW - DSS (CSG Shipsets) USW - DSS (Trainer/Shore Site Hardware)	A A							2,800 2,170	30	79	2,370 1,698	32	76	2,426
/M832	Production Support (ACOMMs)								40			33			35
/M833	Production Support (CV-TSC)								54			65			25
/M834	Production Support (Domes)								1,131			1,140			1,145
/M835	Production Support (USW - DSS)								2,576			2,128			1,049
/M902	Consulting Services (ACOMMs)								70			70			70
/M903	Consulting Services (CV-TSC)														
/M128	Installation (CV-TSC)								185			191			194
/MTBD	Installation (USW-DSS)									30	62	1,853	32	31	1,006
									15,734			15,478			9,204
DD FORM	2446, JUN 86	P-1 SHO	OPPING LIST				1		10,101	ı.		CLASSIFICA			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST

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	WEAPONS SYSTEM COST P-5	ANALYS	IS		Weapon Sy	stem							DATE: FEBRUA	RY 2006
	RIATION/BUDGET ACTIVITY ocurement, Navy / BA-02				ID Code		OMENCLATUR			PMENT / BL	I 217600/5			
				5 1/2000			57,000			57,007,0		ı	57,007,1	
COST CODE	ELEMENT OF COST	ID Code		FY 2008			FY 2009			FY 2010			FY 2011	
			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
VM201	Acoustic Communications (ACOMMs)	Α	6	49	293	6	49	295	5	59	294	5	59	29
VM301	Aircraft Carrier Tactical Support Center (CV-TSC)	А	4	185	738	4	189	754	4	193	771	4	198	792
VM401	Surface Sonar Windows and Domes	А	3	958	2,875	3	1,155	3,465	3	1,388	4,165	3	1,429	4,28
VM601	USW - DSS (CSG Shipsets)	А	38	79	3,016	32	82	2,614	26	101	2,616	28	100	2,80
VM832	Production Support (ACOMMs)				46			52			63			72
VM833	Production Support (CV-TSC)				27			29			29			29
VM834	Production Support (Domes)				1,184			1,214			1,131			1,148
VM835	Production Support (USW - DSS)				1,672			1,265			1,272			1,297
VM902	Consulting Services (ACOMMs)				70			70			70			70
VM903	Consulting Services (CV-TSC)													
VM128	Installation (CV-TSC)				197			201			205			209
VMTBD	Installation (USW-DSS)		38	44	1,658	32	48	1,522	26	66	1,727	28	69	1,943
	2446, JUN 86		OPPING LIS		11,776			11,481			12,343 CLASSIFICA			12,952

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BUDGET PROCUREM	ENT HISTO	RY AND P	LANNING EXHIBIT	Г (Р-5А)		Weapon System		A. DATE		
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NO	 MENCLATURE			EBRUARY 2	2006
									0022	
Other Procurement, N	avy / BA-0	2				PORT EQUIPMENT / E	BLI 21760			VM
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>FY 2005</u>										
ACOMMS/VM201	6	45	N/A	N/A	WX	NAVSEA, Crane	Nov 2004	Feb 2005	Y	
CV-TSC/VM301	1	649	N/A	N/A	wx	NAVSEA, Keyport	Nov 2004	Feb 2005	Y	
SDRW/VM401	3	1,097	NAVSEA	N/A	SS/FFP	Goodrich/Jacksonville, FL	Mar 2005	Oct 2006	Y	
FY 2006										
ACOMMS/VM201	6	49	N/A	N/A	wx	NAVSEA, Crane	Oct 2006	Feb 2007	Υ	
CV-TSC/VM301	1	719	N/A	N/A	wx	NAVSEA, Keyport	Nov 2005	Feb 2006	Υ	
SDRW/VM401	3	1,072	NAVSEA	N/A	SS/FFP	Goodrich/Jacksonville, FL	Mar 2006	Jun 2007	Y	
USW-DSS Shipsets/VM601	30	79	SSC/Charleston	N/A	WX	Progeny/Manassas, VA	Oct 2005	Apr 2006	Y	
FY 2007										
ACOMMS/VM201	6	48	N/A	N/A	wx	NAVSEA, Crane	Nov 2007	Feb 2008	Y	
CV-TSC/VM301	4	179	N/A	N/A	WX	NAVSEA, Keyport	Nov 2006	Feb 2007	Υ	
SDRW/VM401	2	1,125	NAVSEA	N/A	SS/FFP	Goodrich/Jacksonville, FL	Oct 2007	Jun 2008	Υ	
USW-DSS Shipsets/VM601	32	76	NAVSEA	TBD	SS/FFP	TBD	Nov 2006	Apr 2007	Υ	

P-1 SHOPPING LIST Classification: PAGE NO. DD Form 2446-1, JUL 87

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CLASSIFICATION:	UNCLASSIFIED		UNDERSEA WARFARE SUPPORT EQUIPMENT / BLI 217600/5	FEBRUARY 2006
P3A		INDIVIDUAL MODIFICATION		

MODELS OF SYSTEM AFFECTED: VARIOUS TYPE MODIFICATION: Engineering Change MODIFICATION TITLE: Acoustic Communications (ACOMMs)

DESCRIPTION/JUSTIFICATION:

Acoustic Communications provides two-way and one-way acoustic communications equipment for submarines and surface ships. The equipment consists of: (1) AN/WQC-2/2A, a stand alone, single side band, general purpose, voice, continuous wave, multiple tone communication for surface ships, submarines, and some shore activities; (2) AN/WQC-6, which provides long range coded signaling from surface ASW ships to attack submarines when interfaced with the AN/SQS-53 and AN/BQQ-5; (3) AN/BQC-1(), a stand-alone emergency voice and signal beacon for submarines, and (4) technical improvements (Engineering Changes) to acoustic communication equipment. Funding will provide for continued procurement of both Probe Alert (AN/WQC-6) improvements and AN/WQC-2A Engineering Changes plus associated production engineering support and consulting services for the SSN 21, SSN 688, SSBN 726, DDG 51, CG 47, MHC 51, MCM 1, CVN 65, ARS 50, FFG 7, and CVN 68 class ships and submarines.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

		FY 2004 & Prior QTY \$ (2005		2006		2007		<u> 2008</u>		2009		2010				omplete		<u>DTAL</u>
	QTY	\$		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&E</u>																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT				6	0.3	6	0.3	6	0.3	6	0.3	6	0.3	5	0.3	5	0.3	TBD	TBD	40	2.0
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER - ECPs																					0.0
OTHER - ENGINEERING SUPPORT					0.0		0.0		0.0		0.0		0.0		0.1		0.1		TBD		0.3
OTHER					0.1		0.1		0.1		0.1		0.1		0.1		0.1		TBD		0.5
INTERIM CONTRACTOR SUPPORT																					0.0
INSTALL COST																					0.0
TOTAL PROCUREMENT					0.4		0.4		0.4		0.4		0.4		0.4		0.4		TBD		2.8

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CLASSIFICATION: UNCLASSIFIED

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CLASSIFICATION: UNCLASSIFIED		UNDERSEA WARFARE SUPPORT EQUIPMENT	/ BLI 21/600/5	FEBRUARY 2006
P3A	INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED:	CVN	TYPE MODIFICATION: Engineering Change	MODIFICATION TITLE:	CV-TSC
DESCRIPTION/JUSTIFICATION:				

The CV-TSC of the Carrier Combat Direction System (CDS) is the focal point of supply for force ASW/SUW functions. The system supports the multi-mission, tactical deployment of embarked airborne weapon systems (S-3B and SH-60 Helicopters) by providing mission planning, in-flight support and post mission assessment/intelligence collection. CV-TSC provides real time and post mission analysis of relayed or taped acoustic and non-acoustic signals to support CV/CVN USW Self Defense. The system consists of digital computers, commercial workstation displays, mass memories, plotters, acoustic analysis equipment and interface devices. The CV-TSC furnishes timely evaluated USW and SUW information to the Officer in Tactical Command as inputs to the decision making process. Procurement of non-developmental engineering changes to maintain system IT-21 supportability and interoperability with embarked aircraft, airborne sensors, and shipboard interfaces will continue. Naval Undersea Warfare Center (NUWC), Division Keyport has been designated as the Alteration Installation Team (AIT) for all items. Installations will be accomplished at NUWC, the CV-TSC training site at Fleet Combat Training Center Atlantic (FCTCL) Dam Neck, VA, CV-TSC Ashore training site, and on board CV-63 through CVN-75.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

	FY 2004	FY 2004 & Prior QTY \$ Q			2005		2006		2007	<u>F`</u>	<u> 2008</u>		2009		2010				omplete	TC	TAL
	QTY	\$		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&E</u>																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT				1	0.6	1	0.7	4	0.7	4	0.7	4	0.8	4	0.8	4	0.8	TBD	TBD	22	5.1
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER - ECPs																					0.0
OTHER - ENGINEERING SUPPORT					0.1		0.1		0.0		0.0		0.0		0.0		0.0		TBD		0.3
OTHER					0.0		0.0														0.0
INTERIM CONTRACTOR SUPPORT																					0.0
INSTALL COST				1	0.2	1	0.2	4	0.2	4	0.2	4	0.2	4	0.2	4	0.2	TBD	TBD	22	1.4
TOTAL PROCUREMENT					0.9		1.0		0.9		1.0		1.0		1.0		1.0		TBD		6.8

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CLASSIFICATION: UNCLASSIFIED							UNI	DERSEA V	/ARF	ARE S	UPPO	ORT E	QUIPMEN	NT / BI	LI 217600/	5						FEBRUA	RY 2006		
P3A (Continued)	IN	DIVIDU	AL M	ODIFICA	TION	(Continued	i)																		
MODELS OF SYSTEMS AFFECTED	: <u>C</u>	VN		MOI	DIFICA	ATION TITL	.E:	CV-TSC										_							
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: <u>S</u>																									
ADMINISTRATIVE LEADTIME:	Month	_				LEADTIM	Ε:	3 Months																	
CONTRACT DATES: DELIVERY DATE:				FY 2005 FY 2005		Nov 04					FY 2 FY 2		Nov (=	FY 2 FY 2		Nov 06 Feb 07						
DELIVERY DATE.				F1 2003	-	Feb 05					F1 Z	.000.	Feb (<i>.</i>		-	ΓΊZ	007.	<u>reb 07</u>						
0.21	0004	0 D.:				7/ 0005			Millio				V 0000		7/ 0000		V 0040	_	7/ 0044	1				T. (-1	
	2004 Qty	& Prior			Qty	Y 2005 \$	Qty	Y 2006 \$	Qty	FY 200		Qty	Y 2008 \$	Qty	Y 2009 \$	Qty	Y 2010 \$	Qty	Y 2011 \$		to Co	omplete \$	Qty	Total \$	
	λίλ	φ			Qty	Ψ	Qty	Ψ	Qty		p	Qty	Ψ	Qty	φ	Qty	φ	Qty	φ	G	ity	Φ	Qly	Φ	
FY 2004 and PRIOR YEARS																					\dashv				
																							0.0		0.0
FY 2005 EQUIPMENT					1	0.2																	1.0		0.2
FY 2006 EQUIPMENT							1	0.2	2														1.0		0.2
FY 2007 EQUIPMENT									4		0.2												4.0	•	0.2
FY 2008 EQUIPMENT												4	0.2	2									4.0	•	0.2
FY 2009 EQUIPMENT														4	0.2	2							4.0		0.2
FY 2010 EQUIPMENT																4	0.2						4.0		0.2
FY 2011 EQUIPMENT																		4	0.	.2			4.0		0.2
TO COMPLETE																				TE	BD	TBD	TBD	T	ΓBD
INSTALLATION SCHEDULE:	•				·		•	1		·				1	•		1	•		•					
FY 2004 & Prior			<u>FY 2</u> 2		$\ $	FY 2006 2 3	4	1 2	2007 3		1	<u>FY 2</u> 2	2 <u>008</u> 3 4		FY 2009 2 3	4	1 2	<u>/ 2010</u> 3			2011 2	_	<u>TC</u>	TOTAL	
			0		0	0 1	0	l 	0	0	0	4	3 4 0 0	0	4 0		0 4	0	0 0			3 4 0 0	TBD	22	
In 0 Out 0				0 1		0 0	1	0 2	2	0	0	2	2 0		2 2	0	0 4	2	0 0		2	2 0	TBD	22	
														<u>.</u>											
																	P-3	A							

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CLASSIFICATION:	UNCLASSIFIED		UNDERSEA WARFARE SUPPORT EQUIPMENT	/ BLI 217600/5	FEBRUARY 2006
P3A		INDIVIDUAL MODIFICATION			
MODELS OF SYSTE	EM AFFECTED:	VARIOUS	TYPE MODIFICATION: Emergency Replacement	MODIFICATION TITLE:	Surface Sonar Windows and Domes
DESCRIPTION/JUS	TIFICATION:				
experience failure du level receiving and s	ue to corrosion, fatigue ensitivity resulting fror sonar systems. Produ	e, and impact in the splice region. The SD n reduced attenuation. AN/SQS-56 Sonar	DG51 class ships. This program provides emergency RW significantly improves the surface ship sonar performants. Rubber Domes (SRD) are installed in FFG7 class shoal evaluation, failure analyses, implementation of the	ormance by reducing flow-induced self-noisips. This program provides emergency rep	se, and by providing increased source blacement SRD for AN/SQS-56
DEVELOPMENT ST	ATUS/MAJOR DEVEL	OPMENT MILESTONES: N/A			

	FY 200-	<u>r</u>		2005		2006		2007		<u>/ 2008</u>		<u> 2009</u>		2010		<u> 2011</u>		<u>omplete</u>		<u>TAL</u>
	QTY	\$ 1 1	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																		ı		
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				0.0
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT			3	3.3	3	3.2	2	2.2	3	2.9	3	3.5	3	4.2	3	4.3	TBD	TBD	20	23.6
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER - ECPs																				0.0
OTHER - ENGINEERING SUPPORT				1.1		1.1		1.1		1.2		1.2		1.1		1.1		TBD		8.1
OTHER																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST																				0.0
TOTAL PROCUREMENT				4.4		4.4		3.4		4.1		4.7		5.3		5.4		TBD		31.7

ITEM PAGE

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CLASSIFICATION: UNCLASSIFIED	UNDERSEA WARFARE SUPPORT EQUIPMENT / BLI 217600/5
CLASSIFICATION. UNCLASSIFIED	UNDERSEA WARFARE SUFFUR I EQUIFINENT / DEL 21/000/3

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:	Carrier Strike Groups (CSGs)	TYPE MODIFICATION:	Added Capability	MODIFICATION TITLE:	USW-Decision Support System (USW-DSS)

DESCRIPTION/JUSTIFICATION:

P3A

Funding identified provides for the procurement of Undersea Warfare-Decision Support System (USW-DSS) capability on selected CSG platforms and supporting shore nodes via permanent alterations (SHIPALTs) in FY 2006-2011, and will support periodic technology refresh of USW-DSS hardware/software to keep capabilities concurrent with leading COTS technology. Each CSG buy will be tailored to the required group composition, but will generally consist of 1 CVN, 3 CGs, 3 DDGs, 2 SSNs and 6 P-3s per CSG.

| USW | /-DSS B | uild 1 | SHIPAL | _T insta | llations | s begii | nning 3 | Q FY0 | 6. | |

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 | <u>Complete</u> | <u>To</u> | <u>otal</u> |
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 | 2.8 | TBD
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FEBRUARY 2006

CLASSIFICAT	TION: UNCLASSIFIE									DER	SEA \	NAR	FARE	SUP	POR	RT EQU	IPME	NT/BL	I 2176	500/	/5				F	EBRU	ARY 200	6
P3A (Continue	ed)		INDIVIE	DUAL	MODIF	ICAT	ION (Continu	ed)																			
MODELS OF	SYSTEMS AFFECTE	D:	CSGs			MOD	DIFICA	TION T	TLE:	USV	N-Dec	cisior	Suppo	ort S	Syste	m (USV	V-DSS	3)			_							
METHOD OF	ON INFORMATION: IMPLEMENTATION:			IPALT																								
CONTRACT [TIVE LEADTIME <u>: 1 M</u>	lonth)DUC 2005:		LEADTI	ME:	5 M	onths		F	Y 20)06·	Nov	-05				FV 2	<u></u>	Nov-0	6				
DELIVERY DA						2005:								Y 20		Apr-							Apr-0			•		
											in Mill	ions)														_		
Cos	st:		004 & Pr	ior	ı			Y 2005		Y 200			Y 2007			2008		Y 2009			Y 2010		FY 201			Comple		Total
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																											(0.0
FY 2005 EQ	UIPMENT																										(0.0
FY 2006 EQ	UIPMENT								30		1.9																30	1.9
FY 2007 EQ	UIPMENT											32	1	1.0													32	1.0
FY 2008 EQ	UIPMENT														38	1.7											38	1.7
FY 2009 EQ	UIPMENT																32		1.5								32	1.5
FY 2010 EQ	UIPMENT																			26	1.7	7					26	1.7
FY 2011 EQ	UIPMENT																					28		1.9			28	1.9
TO COMPLE	ETE																								TBD	TI	3D (0.0
INSTALLA ⁻	TION SCHEDULE:			•							·								·								·	
	FY 2004			F١	Y 2005			FY 200	<u>6</u>		FY 2	007			Y 20			FY 20	09		FY 2	2010			FY 20	<u> 11</u>	TC	
	& Prior			12	2 3	4	1	2 3	3 4	1	2	3	4	1	2	3 4	1	2	3	4	1 2	3	4	1	2	3	4	TOTAL
In	0		() (0 0	0	0	0 1	5 15	0	0	16	16	0	0	19 19	0	0	16	16	0 0	13	13	0	0	14	14 TBI	186
Out	0		() (0 0	0	0	0 1	5 15	0	0	16	16	0	0	19 19	0	0	16	16	0 0	13	13	0	0	14	14 TBI	186

ITEM PAGE 34 11

	BUDGE	T ITEM	JUSTIFICA	TION SHEE	Т			DATE:					
				P-40					February 2006	5			
APPROPRIATION/BUD						P-1 ITEM NO		-					
OTHER PROCURE	MENT, NA	VY				SONAR SWIT	CHES AND T	RANSDUCERS	S 218100				
BA-2: COMMUNIC	ATIONS &	ELECT	RONICS E	QUIPMENT									
Program Element for C	ode B Items	s:				OTHER RELATED PROGRAM ELEMENTS							
PE# 0204281N													
	Prior	ID											
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Total			
QUANTITY			N/A	N/A	N/A	N/A	N/A	N/A	N/A	0			
EQUIPMENT COST (In Millions)			\$13.2	\$12.1	\$12.5	\$13.3	\$13.7	\$14.0	\$14.5	\$106.7			
SPARES COST				·	* -	, ,	,		, -				
(In Millions)			\$0.4	\$0.5	\$0.5	\$0.5	\$0.4	\$0.5	\$0.4	\$3.7			

PROGRAM DESCRIPTION/JUSTIFICATION:

This program procures hydrophones, transducers, cables, associated OutBoard Electronics bottles (OBE), and acoustic windows for In Service Under Sea Warfare Sonars on all classes of submarines. The components are required to support units in the fleet on a replacement basis, at regularly scheduled ship overhauls, and at interim availabilities when units are defective, and for upgrades.

PU100 SONAR SWITCHES AND TRANSDUCERS

Included in this line are procurements of transducers, hydrophones, windows, cables, OutBoard Electronics (OBE), and domes and their associated mounting hardware and other support equipment and materials for the following Under Sea Warfare Sonars: BSY-1, BSY-2, BQQ-5, BQQ-10, BQG-5, BQS-15, BQS-14A, WQC-2, WLR-9/12, BQN-13, BQN-17, BQA-8, and BQH-1.

PU200 ENGINEERING CHANGES

Funds ECPs, Value Engineering awards, and hardware changes affecting the SSN 688, 688I, SSN 21, and SSBN 726 (TRIDENT) Class submarines.

PU300 PROGRAM SUPPORT

Supports the procurement of equipment of sonar hydrophones, trandsducers, cables, OutBoard Electronics, and acoustic windows for In Service Under Sea Warfare Sonars.

P-1 SHOPPING LIST PAGE NO. 1 CLASSIFICATION:

	WEAPONS SYSTEM COST P-5	ANALY	SIS		Weapon Sy	stem			DATE:	February 20)06
Other	PRIATION/BUDGET ACTIVITY Procurement, Navy COMMUNICATIONS & ELECTRO	NICS E		P-1 ITEM N SONAR SI IT				(H2PU)	BLI 218100	•	, , , , , , , , , , , , , , , , , , ,
COST	ELEMENT OF COST	ID Code							FY 2007		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
PU100	SONAR SWITCHES & TRANSDUCERS										
	CW-1147 CW-1181C	A A	22	27.3	601	27	6.2	167	27	6.3	170
	MX-10624	A	35	3.1	109	25	3.2	80		3.4	68
	MX-10616 ()	A	3	146.5	440	2	150.9	302		153.9	308
	WINDOW (NSSN HFSA)	A A	1	157.6 166.1	158 166	1	161.6 169.6	162 170			
	MX-11474() DT-574OBE	A	85	166.1		60	169.6	170 834		14.1	846
	DT-511B	A	15	17.6	1,156 264	15	18.0	270		18.4	184
	DT-511B	A	100	2.3	230	120	2.4	288		2.4	288
	DT-513 ()	A	20	19.2	384	20	19.9	398		2.4	200
	TR-232()	Â	20	19.2	304	20	19.9	390			
	TR-233B	A				38	18.3	695	35	8.3	291
	TR-282	A	20	27.2	544	20	20.9	418		21.5	430
	TR-302B & CBL	A	30	27.7	831	45	23.8	1071	50	24.4	1,220
	TR-302(WINDOW)	A	10	0.6	6	10	0.6	6	10	0.6	6
	TR-317C	A		0.0	Ö	10	0.0	Ü	10	0.0	· ·
	TR-321()	A	70	11.9	833	35	7.0	245	40	7.4	296
	TR-321V CTD	A	20	22.5	450	45	23.1	1040	42	44.8	1,882
	TR-338A & CBL	A	20	14.5	290	20	14.8	296			.,002
	TR-341()	A	72	12.4	893	60	12.8	768			
	WAA OBE	Α	80	7.8	624	40	8.0	320		8.1	405
	DT-677	Α								_	
	NCC CONNECTORS	Α	375	0.7	263	330	0.8	264	225	0.8	180
	DT-699() HFSA RECEIVE	Α	21	82.7	1,737	15	46.7	701	10	47.7	477
	TR-364() HFSP XMIT	Α	2	192.2	384	2	99.8	200		101.9	204
	TR-317()	Α				140	6.6	924	1000	2.7	2,700
	TOTAL PU100				10,363			9,619			9,955
PU200	ENGINEERING CHANGES	Α			168			181			185
PU300	PROGRAM SUPPORT	А			2,707			2,301			2,384
TOTAL	•				13,238			12,101			12,524
	M 2446 JUN 86		P-1 SHOPPI		,			,	CLASSIFICA		,

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

CLASSIFICATION:

WEAPONS SYSTEM COST ANALYSIS Weapon System DATE: P-5 February 2006 APPROPRIATION/BUDGET ACTIVITY **ID Code** P-1 ITEM NOMENCLATURE/SUBHEAD Other Procurement, Navy SONAR SWITCHES AND TRANSDUCERS / H2PU **BLI 218100 BA-2: COMMUNICATIONS & ELECTRONICS EQUIPMENT** TOTAL COST IN THOUSANDS OF DOLLARS FY 2010 FY 2011 ID COST **ELEMENT OF COST** FY 2008 FY 2009 CODE Code UNIT **TOTAL** UNIT **TOTAL** UNIT **TOTAL** UNIT **TOTAL** QTY COST COST QTY COST COST QTY COST COST QTY COST COST PU100 SONAR SWITCHES & TRANSDUCERS CW-1181C 20 20 132 Α 6.5 130 6.6 MX-10624 Α 20 3.5 70 25 13.3 333 2 314 MX-10616 () Α 328 162.5 650 157.1 2 164.2 4 WINDOW (NSSN HFSA) Α 176.1 176 180.2 180 MX-11474() Α 184.5 185 188.7 189 DT-574 OBE 53 Α 14.4 763 DT-511B Α DT-513() 120 2.7 Α 3.0 360 150 3.7 555 120 324 DT-592 30 36.0 1,080 37 21.5 796 Α TR-233B Α 35 8.4 294 30 8.6 258 40 8.8 352 30 19.5 585 TR-281 50 985 50 19.2 960 19.7 Α TR-282 Α 20 22.1 442 TR-302() & CBL Α 37 25.0 925 40 40.7 1,628 TR-302(WINDOW) Α 10 0.7 10 0.7 TR-317 C(AN/BQQ-5/BSY-1) Α 40 35 277 TR-321() Α 7.6 304 7.9 TR-321V CTD Α 52 24.6 1,279 35 25.3 886 20 492 24.6 TR-338A & CBL 40 996 620 632 Α 24.9 40 15.5 40 15.8 40 16.3 652 TR-341() Α 140 14.5 2,030 100 12.8 1,280 120 12.9 1,548 WAA OBE Α DT-677 Α NCC CONNECTORS Α 375 0.8 300 400 0.8 320 400 0.8 320 510 0.8 408 DT-699() HFSA RECEIVE Α 10 48.8 488 49.8 598 13 131.7 10 52.0 520 12 1,712 TR-364() HFSP XMIT 2 532 211.1 Α 104.1 208 5 106.3 5 1,056 1155 3,234 1830 5,124 TR-317() Α 2.8 2.8 1000 2.9 2,900 300 2.9 870 TR-232() MK-700 25 35.2 880 Α Total PU100 10,107 10,777 10,979 11,611 PU200 **ENGINEERING CHANGES** Α 190 190 195 195 PU300 PROGRAM SUPPORT 2,953 2,839 Α 2,684 2,658 TOTAL 13,250 13,651 14,013 14,464

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 35 PAGE NO. 3 UNCLASSIFIED

BUDGET PROCUREMEN	T HIST	ORY AND	PLANNIN	G EXHIBIT	(P-5A)	Weapon System		A. DATE			
					. ,				Februa	ry 2006	
B. APPROPRIATION/BU	JDGET	ACTIVITY	<u>'</u>		C. P-1 ITEM	NOMENCLATUR	₹E		SUBHEAD	-	
Other Procurement, Nav	v				SONAR SWITE	CHES AND TRANSDU	CERS		H2	PU	
BA-2: COMMUNICATION	•	FCTPON	IICS EOLIII	OMENT	BLI 218100	J.1.20 7 (110 110 110 110 110 110 110 110 110 11	02.10				
BA-2. COMMUNICATION	13 & LI	LCINON	IICS EQUII	MILIMI			1	I			
					CONTRACT			DATE OF	SPECS	IF NO	
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	WHEN	
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE	
		(000)									
PU100		(555)									
FY 2005											
CW-1181C (WLR-9)*	22	27.303	NUWC	7/04	C/FP	HARRIS	3/05	3/06	YES		
MX-10624() (AN/BSY-1/2)	35	3.095	NUWC		WX	NUWC	1/05	1/06	YES		
MX-10616 () (BSY-1 A-RCI IV)	3	146.454	NUWC		OPTION**	B F Goodrich	3/05	3/06	YES		
WINDOW (NSSN HFSA)	1	157.562	NUWC		OPTION**	B F Goodrich	3/05	3/06	YES		
MX-11474() (BSY-2 HFSA)	1	166.109	NUWC		OPTION***	UNKNOWN	3/05	3/06	YES		
DT-574 OBE (AN/BSY-2)	85	13.598	NUWC		OPTION	HARRIS	3/05	3/06	YES		
DT-511B (WLR-9)	15	17.623	NUWC		OPTION	ITC	3/05	3/06	YES		
DT-513() (AN/BQA-8)	100	2.323	NUWC		OPTION	HARRIS	3/05	3/06	YES		
DT-592 (AN/WLR-9)	20	19.208	NUWC		OPTION	ITC	3/05	3/06	YES		
WAA OBE (AN/BQG-5)	80	7.816	NUWC		OPTION	HARRIS	3/05	3/06	YES		
TR-282 (AN/BQS-15)	20	27.216	NUWC		OPTION	ITC	3/05	3/06	YES		
TR-302B & CABLE (AN/BQN-17)	30	27.698	NUWC		OPTION	EDO	3/05	3/06	YES		
TR-302 WINDOW (AN/BQN-17)	10	0.618	NUWC		WX	NUWC	1/05	1/06	YES		
TR-321() (AN/BQH-1C)*	70	11.920	NUWC	7/04	C/FP	HARRIS	3/05	10/06	YES		
TR-321V CTD*	20	22.454	NUWC	7/04	C/FP	HARRIS	3/05	3/06	YES		
TR-338A & CABLE (AN/BSY-1)	20	14.493	NUWC		OPTION	ITC	3/05	3/06	YES		
TR-341() (AN/BQN-13A)	72	12.369	NUWC		OPTION	ITC	3/05	3/06	YES		
DT-699() HFSA REC (AN/BSY-1)*	21	82.671	NUWC	7/04	C/FP	HARRIS	3/05	3/06	YES		
TR-364() HFSP XMIT (AN/BSY-1)*	2	192.150	NUWC	7/04	C/FP	HARRIS	3/05	3/06	YES		
NCC CONNECTORS D. DEMARKS	375	0.713	NUWC		C/FP	VARIOUS	4/05	4/06	YES		

D. REMARKS

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 35

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^{*} INCLUDES FIRST ARTICLE COSTS

^{**} Option on the FY01 NSSN/ ARCI Phase IV SHIPALT procurement contract ***Option on FY02 BSY-2 SHIPALT Procurement contract

BUDGET PROCUREMEN	T HIST	ORY AND	PLANNIN	G EXHIBIT	(P-5A)	Weapon System		A. DATE		
									Februa	ry 2006
B. APPROPRIATION/BU	DGET	ACTIVITY	,		C. P-1 ITEI	M NOMENCLATUR	E		SUBHEAD	•
Other Procurement, Navy	,				SONAR SWITE	CHES AND TRANSDU	CERS		H2	PU
BA-2: COMMUNICATION		ECTPON	IICS EOLIII	OMENIT						. •
BA-2. COMMONICATION	JALL	LCTKON	IICS EQUII	INITIAL	001170407	1		D 0-	00500	15.110
					CONTRACT			DATE OF	SPECS	IF NO
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	WHEN
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
		(000)								
PU100		` '								
FY 2006										
CW-1181C (WLR-9)	27	6.198	NUWC		OPTION	UNKNOWN	3/06	3/07	YES	
MX-10624() (AN/BSY-1/2)	25	3.247	NUWC		WX	NUWC	1/06	1/07	YES	
MX-10616 () AN/BSY-1)	2	150.928	NUWC		OPTION**	UNKNOWN	3/06	3/07	YES	
WINDOW (NSSN HFSA)	1	161.562	NUWC		OPTION**	UNKNOWN	3/06	3/07	YES	
MX-11474() (BSY-2 HFSA)	1	169.629	NUWC		OPTION***	UNKNOWN	3/06	3/07	YES	
DT-574 OBE (AN/BSY-2)	60	13.863	NUWC		OPTION	HARRIS	3/06	3/07	YES	
DT-511B (WLR-9)	15	18.002	NUWC		OPTION	ITC	3/06	3/07	YES	
DT-513() (AN/BQA-8)	120	2.359	NUWC		OPTION	HARRIS	3/06	10/06	YES	
DT-592 (AN/WLR-9)	20	19.856	NUWC		OPTION	ITC	3/06	3/07	YES	
WAA OBE (AN/BQG-5)	40	7.981	NUWC		OPTION	HARRIS	3/06	3/07	YES	
TR-282 (AN/BQS-15)	20	20.860	NUWC		OPTION	ITC	3/06	3/07	YES	
TR-233B (AN/WQC-2)*	38	18.320	NUWC	7/05	C/FP	UNKNOWN	3/06	3/07	YES	
TR-302B & CABLE (AN/BQN-17)	45	23.814	NUWC		OPTION	EDO	3/06	3/07	YES	
TR-302 WINDOW (AN/BQN-17)	10	0.632	NUWC		WX	NUWC	1/06	3/07	YES	
TR-317 C(AN/BQQ-5/BSY-1)*	140	6.614	NUWC	7/05	C/FP	UNKNOWN	3/06	3/07	YES	
TR-321() (AN/BQH-1C)	35	6.950	NUWC		OPTION	UNKNOWN	3/06	3/07	YES	
TR-321V CTD	45	23.140	NUWC		OPTION	UNKNOWN	3/06	3/07	YES	
TR-338A & CABLE (AN/BSY-1)	20	14.797	NUWC		OPTION	ITC	3/06	3/07	YES	
TR-341 () (AN/BQN-13)	60	12.787	NUWC		OPTION	ITC	3/06	3/07	YES	
DT-699() HFSA REC (AN/BSY-1)	15	46.745	NUWC		OPTION	UNKNOWN	3/06	3/07	YES	
TR-364() HFSP XMIT (AN/BSY-1)	2	99.823	NUWC		OPTION	UNKNOWN	3/06	3/07	YES	
NCC CONNECTORS	330	0.754	NUWC		C/FP	VARIOUS	4/06	4/07	YES	
FY 2007 CW-1181C (WLR-9)	27	6.334	NUNAC		OPTION	LINICALOVAN	2/07	2/00	VEC	
, ,	27	3.432	NUWC			UNKNOWN NUWC	3/07 1/07	3/08 1/08	YES YES	
MX-10624() (AN/BSY-1/2) MX-10616 () AN/BSY-1)	20	153.940	NUWC		WX OPTION	UNKNOWN	3/07	3/08	YES	
DT-574 OBE (AN/BSY-2)	60	14.133	NUWC		OPTION	HARRIS	3/07	3/08	YES	
DT-511B (WLR-9)	10	18.380	NUWC		OPTION	ITC	3/07	3/08	YES	
DT-511B (WLR-9) DT-513() (AN/BQA-8)	120	2.408	NUWC		OPTION	HARRIS	3/07	3/08	YES	
WAA OBE (AN/BQG-5)	50	2.408 8.148	NUWC		OPTION	HARRIS	3/07	3/08	YES	
TR-233B (AN/WQC-2)	35	8.258	NUWC		OPTION	UNKNOWN	3/07	3/08	YES	
TR-282 (AN/BQS-15)	20	21.450	NUWC		OPTION	ITC	3/07	3/08	YES	
TR-202 (AIVBQ3-15) TR-302B & CABLE (AN/BQN-17)	50	24.412	NUWC		OPTION	EDO	3/07	3/08	YES	
TR-302 WINDOW (AN/BQN-17)	10	0.646	NUWC		WX	NUWC	1/07	3/08	YES	
TR-317 C (AN/BQQ-5/BSY-1)	1000	2.693	NUWC		OPTION	UNKNOWN	3/07	3/08	YES	
TR-321() (AN/BQH-1C)	40	7.350	NUWC		OPTION	UNKNOWN	3/07	3/08	YES	
TR-321V CTD	42	44.779	NUWC		OPTION	UNKNOWN	3/07	3/08	YES	
DT-699() HFSA REC (AN/BSY-1)	10	47.726	NUWC		OPTION	UNKNOWN	3/07	3/08	YES	
TR-364() HFSP XMIT (AN/BSY-1)	2	101.918	NUWC		OPTION	UNKNOWN	3/07	3/08	YES	
NCC CONNECTORS	225	0.768	NUWC		C/FP	VARIOUS	4/07	4/08	YES	
D. REMARKS									-	
* INCLUDES FIRST ARTICLE COSTS										

^{*} INCLUDES FIRST ARTICLE COSTS

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P-1 SHOPPING LIST

^{**}Option on the FY01 NSSN/ARCI Phase IV SHIPALT procurement contract ***Option of FY02 BSY-2 SHIPALT Procurement contract

CLASSIFICATION:		UNCLAS	SIFIED								
			BUDGET IT	EM JUSTIFICA	TION SHEET					DATE:	
				P-40						February 2006	
APPROPRIATION/BUDGET	T ACTIVITY					P-1 ITEM NOMEN	CLATURE				
OTHER PROCUREME	NT, NAVY					SUBMARINE A	COUSTIC WAR	FARE SYSTEM	(SAWS) / H2W	М	
Program Element for Code I 221000	B Items:					Other Related Prog	gram Elements				
	Prior Years	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total
QUANTITY			*	*	*	*	*	*	*	CONT.	CONT.
COST (In Millions)	CONT.		\$20.713	\$25.470	\$20.227	\$16.890	\$20.833	\$21.246	\$21.587	CONT.	CONT.
SPARES COST (In Millions)			\$2.9	\$3.5	\$1.7	\$2.1	\$2.3	\$2.3	\$2.2		

PROGRAM DESCRIPTION/JUSTIFICATION:

The Submarine Acoustic Warfare System (SAWS) provides submarines with an enhanced capability against guided and unguided torpedoes and the means to reduce the effectiveness of enemy sensors. This program provides ongoing production of countermeasure devices needed to sustain fleet inventories, production of preplanned improvements to enhance the readiness and effectiveness of acoustic intercept receivers and processors, and production of countermeasure devices and associated countermeasure launcher systems.

The FY05 funds are required to procure 6" Countermeasures (ADC MK 3 and MK 4 with associated launch tubes), ADC MK 2, NAE Beacons, CSA MK 2 Mod 1 Countermeasure Launchers, Acoustic Intercept Improvement, GG MK 77 for 6" Countermeasures, and associated production support.

The FY06 funds are required to procure 6" Countermeasures (ADC MK 3 and MK 4 with associated launch tubes), ADC MK 2, NAE Beacons, procure and install CSA MK 2 Mod 1 Countermeasure Launchers including SSGN, and SSN 755 platforms, Acoustic Intercept Improvement, GG MK 77 for 6" Countermeasures, and associated production support.

The FY06 Congressional Add for the Common Acoustic Sensor Initiative to extend the application of the 12-inch Sparsely Populated Volumetric Array (SPVA-12) into a Common Acoustic Sensor (CAS) for both submarine and surface ships.

The FY07 funds are required to procure 6" Countermeasures (ADC MK 3 and MK 4 with associated launch tubes), ADC MK 2, NAE Beacons, procure and install CSA MK 2 Mod 1 Countermeasure Launchers including SSGN and SSN 756 platforms, Acoustic Intercept Improvement, GG MK 77 for 6" Countermeasures, and associated production support.

* Occantitudes a mississa of articles with various unit south

CSA MK 2 Cable I	nstallation:			CSA MK 2 L	auncher Installation	on:	
Туре	Date	End Item	Funding	Туре	Date	End Item	Funding
SHIPALT	2Q/FY05	SSN762	.230M	SHIPALT	3Q/FY06	SSN755	1.200M
SHIPALT	3Q/FY05	SSN761	.230M	SHIPALT	1Q/FY07	SSGN727	1.150M
SHIPALT	4Q/FY05	SSN765	.230M	SHIPALT	3Q/FY07	SSGN728	1.150M
				SHIPALT	4Q/FY07	SSN756	1.600M
				SHIPALT	2Q/FY08	SSGN729	1.400M
				SHIPALT	2Q/FY10	SSGN726	* 0.200M

^{*} Only requires minor installation

UNCLASSIFIED

	WEAPONS SYSTEM COST ANAL' P-5	YSIS				Weapon Syste	em				DATE: Februa	rv 2006
APPROPRIA	ATION/BUDGET ACTIVITY					ID Code	P-1 ITEM NOW	IENCLATURE	SUBHEAD			,
Other Procure												
BA-(2): Com	munication and Electronic Equipment - ASW		TOTAL 000	T IN THOUGA	NDO OF BOLL	100	SUBMARINE A	ACOUSTIC W	ARFARE SYST	EM (SAWS) /	H2WM	
			TOTAL COS	ST IN THOUSA	NDS OF DOLI	LARS						
COST	ELEMENT OF COST	ID	Prior		FY 2005			FY 2006			FY 2007	
CODE		Code	Years									
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
WM014	ADC MK 3 (TORPEDO)	Α		151	21	3,183	175	24	4,200	155	24	3,791
WM014	ADC MK 4 (SONAR)	Α		120	32	3,840	140	33	4,620	62	33	2,015
WM014	SHOCK QUALIFICATION FIXTURE	Α				608			0			0
WM014	6" COUNTERMEASURE LAUNCH TUBE	Α		249	6	1,416	315	6	1,890	222	6	1268
						,			,			
WM015	ADC MK 2 MOD 1	A		705	1	3,031	130	5	658	335	5	1,707
WM015	ADC MK 2 MOD 1 SEAWOLF EC	A		703	7	3,031	130	3	030	20	3	48
WM015	NAE BEACON	A		156	6	954	96	6	587	95	6	581
WWWTO	TWIE BENOON			100	O	304	30	O	307	30	O	301
WM017	ACOUSTIC INTERCEPT	Α				1,612			1,600			1,400
WM017	COMMON ACOUSTIC SENSOR INITIATIVE CONG. PLUS-UP	Α				0			1,500			0
WM019	CSA MK 2 MOD 1 LCP ENG. CHANGE	А		4	293	1,171	4	318	1,271	2	318	635
WM019	CSA MK 2 CABLE PROCUREMENT	Α				0			0			0
WM019	CSA MK 2 MOD 1 Launcher (SSGN)	Α				0	2	1,750	3,500	1	1,800	1,800
WM927	CSA MK2 CABLE INSTALLATION	Α		3	228	685			0			0
WM927	CSA MK 2 MOD 1 INSTALLATION (SSGN)	Α				0			0	2	1,150	2,300
	CSA MK 2 MOD 1 LAUNCHER INSTALLATION											
WM927	(MIAMI/SCRANTON)	Α				345	1	1,138	1,138	1	1,572	1,572
WM022	GAS GENERATOR MK 77	А		249	8	1,992	315	9	2,835	222	9	1,900
WM830	PRODUCTION ENGINEERING					1,652			1,447			985
WM900	CONSULTING SERVICES					225			225			225
	•					20,713			25,470			20,227
DD FORM 2446, J	IUN 86	P-1 S	HOPPING LI	ST 36		•						CLASSIFICATION

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Remarks:

(WM927) FY05 - Miami Install is advanced planning and the most critical long lead items

(WM927) FY07 - SSGN Install is full-up Launcher System

UNCLASSIFIED

CLASSIFICAT															
	WEAPONS SYSTEM COST ANA P-5	LYSIS				Weapon Sy	rstem				DATE:	ry 2006			
	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLA [*]	TURE/SUBH	IEAD	1 051 44	.y 2000			
	ocurement, Navy Communication and Electronic Equipment - ASW						SUBMARIN	JE ACOUST	IC WARFAI	RE SYSTEM	/ (SAWS) /	H2WM			
			TOTAL COS	ST IN THOU	SANDS OF			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(0,0,,				
COST	ELEMENT OF COST	ID	Prior		FY 2008			FY 2009			FY 2010			FY 2011	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Hait Oaat	Total Cost	Quantity	Unit Cost	Total Cost
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	ADC MK3 (TORPEDO)	Α		160	24	3,913	200	24	4,891	207	24		211	24	5,089
WM014	ADC MK 4 (SONAR)	Α		64	33	2,081	111	33	3,609	114	32	3,681	116	32	3,755
WM014	6" COUNTERMEASURE LAUNCH TUBE	Α		224	6	1,334	311	6	1,887	320	6	1,925	327	6	1,963
WM015	ADC MK 2 MOD 1	Α		335	5	1,707	535	5	2,726	556	5	2,781	567	5	2,836
WM015	ADC MK 2 MOD 1 SEAWOLF EC	Α		20	2	48	21	2	51	22	2	52	22	2	53
WM015	NAE BEACON	Α		95 6			95	6	581	98	6	593	100	6	604
WM017	ACOUSTIC INTERCEPT	Α							1,355			1,629			1,697
WM019	CSA MK 2 MOD 1 LCP ENG. CHANGE	Α		2	318	635	2	318	635	2	324	646	2	331	661
WM019	CSA MK 2 MOD 1 Launcher (SSGN)	Α				400	1	700	700			200			200
WM927	CSA MK 2 MOD 1 LAUNCHER INSTALLATION (SSGN)	Α		1	1,440	1,440			0	1	200	200			0
WM022	GAS GENERATOR MK 77	Α		224	9	1,998	311	9	2,827	320	9	2,884	327	9	2,941
WM830	PRODUCTION ENGINEERING					1,029			1,346			1,436			1,554
WM900	CONSULTING SERVICES					225			225			230			234
						46 000			20.022			24 240			24 507
<u> </u>			LIODDINO			16,890			20,833			21,246			21,587

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Remarks:

(WM927) FY08 - SSGN Installs are full-up Launcher System (WM927) FY10 - SSGN CSA Launcher - Inboard upgrade only.

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CLASSIFICATION:

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BUDGET PROCUREMENT HISTOR	RY AND PLAN	INING EX	(HIBIT (P-5A)			Weapon System		A. DATE		
					1				February 2006	6
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy					C. P-1 ITEM NON	MENCLATURE			SUBHEAD H2WM	
other riodulement, wavy					SUBMARINE	E ACOUSTIC WARFARE SYS	STEM		11244141	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
		(000)								
FY05										
ADC MK 3 - WM014	151	21	NAVSEA		OPTION/ FFP	Ultra, Braintree, MA	1/05	1/06	YES	N/A
ADC MK 4 - WM014	120	32	NAVSEA		OPTION/ FFP	Ultra, Braintree, MA	1/05	1/06	YES	N/A
LAUNCH TUBES - WM014	249	6	NSWC/CRANE		WX	NRAD, SAN DIEGO, CA	11/04	5/05	YES	N/A
NAE BEACON - WM015	156	6	NAVICP		OPTION/ FFP	Allied Logistics, Ventura, CA	3/06	12/06	YES	N/A
ADC MK 2 MOD 1 - WM015 GG MK 77 - WM022	705 249	4 8	NAVSEA NSWC/CRANE		OPTION/ FFP OPTION/ FFP	Ultra, Braintree, MA UPCO, PHOENIX, AZ	12/04 3/05	12/05 8/05	YES YES	N/A N/A
FY 06										
ADC MK 3 - WM014	175	24	NAVSEA		OPTION/ FFP	Ultra, Braintree, MA	2/06	2/07	YES	N/A
ADC MK 4 - WM014	140	33	NAVSEA		OPTION/ FFP	Ultra, Braintree, MA	2/06	2/07	YES	N/A
LAUNCH TUBES - WM014	315	6	NSWC/CRANE		WX	NRAD, SAN DIEGO, CA	2/06	2/07	YES	N/A
NAE BEACON - WM015	96	6	NSWC/CRANE		C/FFP	Allied Logistics, Ventura, CA	3/06	12/06	YES	N/A
ADC MK 2 MOD 1 - WM015	130	5	NAVSEA		OPTION/ FFP	Ultra, Braintree, MA	2/06	2/07	N/A	N/A
GG MK 77 - WM022	315	9	NSWC/CRANE		OPTION/ FFP	UPCO, PHOENIX, AZ	2/06	8/06	YES	N/A
FY07										
ADC MK 3 - WM014	155	24	NAVSEA		C/FFP	TBD	1/07	1/08	YES	N/A
ADC MK 4 - WM014	62	33	NAVSEA		C/FFP	TBD	1/07	1/08	YES	N/A
LAUNCH TUBES - WM014	222	6	NSWC/CRANE		WX	NRAD, SAN DIEGO, CA	1/07	7/07	YES	N/A
NAE BEACON - WM015	95	6	NSWC/CRANE		OPTION/ FFP	Allied Logistics, Ventura, CA	1/07	7/07	YES	N/A
ADC MK 2 MOD 1 - WM015	335	5	NAVSEA		OPTION/ FFP	Ultra, Braintree, MA	1/07	1/08	YES	N/A
GG MK 77 - WM022	222	9	NSWC/CRANE		C/FFP	TBD	1/07	7/07	YES	N/A
D. REMARKS										

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Classification:

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BUDGET PROCUREMENT HIST						Weapon System		A. DATE	February 2000	6
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy					C. P-1 ITEM NO		etem etem		SUBHEAD H2WM	
	1		1			E ACOUSTIC WARFARE SY	SI EIVI	DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
FY08										
ADC MK 3 - WM014	160	24	NAVSEA		C/FFP	TBD	1/08	1/09	YES	N/A
ADC MK 4 - WM014	64	33	NAVSEA		C/FFP	TBD	1/08	1/09	YES	N/A
LAUNCH TUBES - WM014	224	6	NSWC/CRANE		WX	NRAD, SAN DIEGO, CA	1/08	7/08	YES	N/A
NAE BEACON - WM015	95	6	NSWC/CRANE		OPTION/ FFP	TBD	1/08	7/08	YES	N/A
ADC MK 2 MOD 1 - WM015	335	5	NAVSEA		C/FFP	TBD	1/08	1/09	YES	N/A
GG MK 77 - WM022	224	9	NSWC/CRANE		OPTION/ FFP	TBD	1/08	7/08	YES	N/A
FY09										
ADC MK 3 - WM014	200	24	NAVSEA		OPTION/ FFP	TBD	1/09	1/10	YES	N/A
ADC MK 4 - WM014	111	33	NAVSEA		OPTION/ FFP	TBD	1/09	1/10	YES	N/A
LAUNCH TUBES - WM014	311	6	NSWC/CRANE		WX	NRAD, SAN DIEGO, CA	1/09	7/09	YES	N/A
NAE BEACON - WM015	95	6	NSWC/CRANE		OPTION/ FFP	TBD	1/09	7/09	YES	N/A
ADC MK 2 MOD 1 - WM015	535	5	NAVSEA		OPTION/ FFP	TBD	1/09	1/10	YES	N/A
GG MK 77 - WM022	311	9	NSWC/CRANE		OPTION/ FFP	TBD	1/09	7/09	YES	N/A
FY10										
ADC MK 3 - WM014	207	24	NAVSEA		OPTION/ FFP	TBD	1/10	1/11	YES	N/A
ADC MK 4 - WM014	114	32	NAVSEA		OPTION/ FFP	TBD	1/10	1/11	YES	N/A
LAUNCH TUBES - WM014	320	6	NSWC/CRANE		wx	NRAD, SAN DIEGO, CA	1/10	7/10	YES	N/A
NAE BEACON - WM015	98	6	NSWC/CRANE		OPTION/ FFP	TBD	1/10	7/10	YES	N/A
ADC MK 2 MOD 1 - WM015	556	5	NAVSEA		OPTION/ FFP	TBD	1/10	1/11	YES	N/A
GG MK 77 - WM022	320	9	NSWC/CRANE		OPTION/ FFP	TBD	1/10	7/10	YES	N/A
FY11										
	044	0.4	NAVOE A		ODTION/ FED	TDD	4/44	4/40	VE0	N1/A
ADC MK 3 - WM014	211	24	NAVSEA		OPTION/ FFP	TBD	1/11	1/12	YES	N/A
ADC MK 4 - WM014	116	32	NAVSEA		OPTION/ FFP	TBD	1/11	1/12	YES	N/A
LAUNCH TUBES - WM014	327	6	NSWC/CRANE		WX	NRAD, SAN DIEGO, CA	1/11	7/11	YES	N/A
NAE BEACON - WM015	100	6	NSWC/CRANE		OPTION/ FFP	TBD	1/11	7/11	YES	N/A
ADC MK 2 MOD 1 - WM015	567	5	NAVSEA		OPTION/ FFP	TBD	1/11	1/12	YES	N/A
GG MK 77 - WM022	327	9	NSWC/CRANE		OPTION/ FFP	TBD	1/11	7/11	YES	N/A
D. REMARKS										

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P3A				
MODELS OF SYSTEM AFFECTED: CSA MK 2 SYSTEM (CABLE)	TYPE MODIFICATION:	SHIPALT	MODIFICATION TITLE:	
DESCRIPTION/JUSTIFICATION:				
Procurement and Installation of the CSA MK 2 Cables. (WM019 / WM927)				

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY04	and Prior	FY	2005		2006		2007		2008		2009		<u> 2010</u>		<u> 2011</u>]	OTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																		
RDT&E																		
<u>PROCUREMENT</u>																		
INSTALLATION KITS																		
INSTALLATION KITS - UNIT COST																		
INSTALLATION KITS NONRECURRING																		
EQUIPMENT	24	5.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	24	5.0
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	19	4.1	3	0.7		0.0		0.0		0.0		0.0		0.0		0.0	22	4.7
TOTAL PROCUREMENT		9.1		0.7		0.0		0.0		0.0		0.0		0.0		0.0		9.8

CLASSIFICATION: UNCLASSIFIED																					
P3A (Continued) INDIVIDUA	AL MODIF	FICATION	l (Con	tinued)																	
MODELS OF SYSTEMS AFFECTED: CSA MK 2 (CA	BLE)	MODIFIC	CATIO	N TITLE:		SHIPALT	Γ												-		
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: Shipyard																					
ADMINISTRATIVE LEADTIME:			ON LE	ADTIME:		12	2 Mo		_												
CONTRACT DATES: FY 2005: DELIVERY DATE: FY 2005:		2006: 2006:						FY 2 FY 2									-				
DELIVERY DATE. FY 2005.	ГТ	2006.						ΓΙZ	007.								-				
						(\$ in 1	Millions)													
Cost:	FY 2004 a			/ 2005		2006		Y 2007		Y 2008		Y 2009		Y 2010				omplete			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2004 EQUIPMENT and Prior	24	5.0																0.0	24	5.0	
FY 2005 EQUIPMENT			0	0.0																0.0	
FY 2006 EQUIPMENT						0.0)													0.0	
FY 2007 EQUIPMENT								0.0												0.0	
FY 2008 EQUIPMENT										0.0										0.0	
FY 2009 EQUIPMENT												0.0								0.0	
FY 2010 EQUIPMENT														0.0						0.0	
FY 2011 EQUIPMENT																0.0		0.0		0.0	
TO COMPLETE	0	0.0	0	0.0		0.0)	0.0		0.0		0.0		0.0		0.0		0.0	24	5.0	
INSTALLATION SCHEDULE:	11	ll-																			
FY 2004 FY 2 & Prior 1 2	3 4	_	FY 200	3 4	1	FY 2007 2 3	4	<u>FY 2</u> 1 2	3	4 1	2	2 <u>009</u> 3 4	1	FY 2010 2 3 0 0		1 2 0 0	3		TC	TOTAL	
In 19 0 1 Out 19 0 1	1 1 1 1	0	0 0	0 0 0 0	0	0 0 0 0	0 0	0 0 0 0	0	0 0	0	0 0 0 0		0 0 0 0	0	0 0	0	0	0	22 22	
NOTE: 22 of the 24 Shipsets were installed. 2 Shipsets were	e landbas	sed - 1 Ea	astcoa	st and 1 W	estcoas	t for IMA fa	acilitie			<u> </u>								—	 A		

_		 _	_	_	_
D3	۸				

MODELS OF SYSTEM AFFECTED: CSA MK 2 MOD 1 SYSTEM (Launcher) TYPE MODIFICATION: SHIPALT MODIFICATION TITLE:

DESCRIPTION/JUSTIFICATION:

Procurement and Installation of the CSA MK 2 MOD 1 Launcher for 4 SSGN platforms. (WM019 / WM927)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 20	004 and Prior	FY	2005	FY	2006	FΥ	2007	FY	2008	FY	2009	FY	2010	FY	<u> 2011</u>	<u>-</u>	<u>TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																		
RDT&E																		
<u>PROCUREMENT</u>																		
INSTALLATION KITS																		
INSTALLATION KITS - UNIT COST																		
INSTALLATION KITS NONRECURRING																		
EQUIPMENT	0	0.0	0	0.0	2	3.5	1	1.8	0	0.0	1	0.7	0	0.0	0	0.0	4	6.0
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA (ILS)										0.4				0.2		0.2	0	0.8
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	0	0.0	0	0.0		0.0	2	2.3	1	1.4		0.0	1	0.2		0.0	4	3.9
TOTAL PROCUREMENT		0.0		0.0		3.5		4.1		1.8		0.7		0.4		0.2		10.7

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CLASSIFICATION: UN																						
P3A (Continued)	IND	IVIDU	IAL MODIF	ICATIO	ON (Conti	nued)																
MODELS OF SYSTEMS	4 SSGN		OD 1 (Laun TFORMS (7				TITLE:	SHI	PALT											•		
INSTALLATION INFOR METHOD OF IMPLEME ADMINISTRATIVE LEA	ENTATION: Shipyard	<u>-</u>	PRODUC	TION	LEADTIME	≣:	12	2 Mo	onths	_												
CONTRACT DATES: DELIVERY DATE:	FY 2005:		FY 2006: FY 2006:															<u>-</u>				
Co	pet: EV	2004	and Prior	T =	V 2005	l Ev	/ 2006				V 2009		V 2000		V 2010		V 2011	ITO (Complete	Total		ı
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FY 2004 EQUIPM	IENT AND PRIOR	0	0.0)																0	0.0	
FY 2005 EQUIPM	1ENT			0	0.0															0	0.0	
FY 2006 EQUIPM	1ENT					0	0.0)												0	0.0	
FY 2007 EQUIPM	1ENT							2	2.3	3										2	2.3	
FY 2008 EQUIPM	1ENT									1	1.4									1	1.4	
FY 2009 EQUIPM	1ENT											0	0.0							0	0.0	
FY 2010 EQUIPM	1ENT													1	0.2					1	0.2	
FY 2011 EQUIPM	1ENT																0.0			0	0.0	
TO COMPLETE		0	0.0	0	0.0	0	0.0	2	2.3	3 1	1.4	0	0.0	1	0.2	0	0.0			4	3.9	
In 0	FY 2004 1 2 3 4 1 0 0 0 0 0	_ <u>3</u>	4 1 0 0	0	3 4 0	1	2 3 0 1	0	1 2 0 1	0	4 1 0 0	0	3 4 0	1 0	2 3 1 0	<u>4</u> 0	1 2 0 0	3	0	<u>TC</u>	TOTAL 4	
Out 0		U	0][0	U	0 0	1 1	<u> </u>	U	<u> </u>	U	U U	U	0 0	U	1 0	U	U 0	U	U	_ 0	4]
NOTE:																						
	Y 2005:																					

CLASSIFICATION: UN	NCLASSIFIED																						
P3A (Continued)		INDIVI	DUAL	L MODIFICA	ATION	(Continue	ed)																
MODELS OF SYSTEM	IS AFFECTED:	CSA MK 2 2 6881 PL	2 MC	DD 1 (Launc	her) 755 8	MODIFICA SSN 756	ATION T	ITLE:	SHI	PALT											-		
INSTALLATION INFOR	RMATION:			,			<u>.</u>																
METHOD OF IMPLEM		Shipyard	_																				
ADMINISTRATIVE LEA			-		TION L	EADTIME		12	Moı	nths FY 2	007												
CONTRACT DATES: DELIVERY DATE:	FY 2005: _ FY 2005:		_	FY 2006: FY 2006:						FY 2						_							
DEELVERT BATE.	1 1 2000.		_	1 1 2000.		-				2						_							
						(\$ in N	Aillions)																
C	Cost:	FY 2		and Prior		Y 2005		2006		Y 2007]
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	/ \$	Qty	\$	Qty	\$	Qty	\$	
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FY 2004 EQUIPM	MENT and Prior		0	0.0																	0	0.0	
FY 2005 EQUIPM			0	0.0	0	0.0							+								0		
FY 2006 EQUIPM					0	0.0	1	1.1				FY 2008											
FY 2007 EQUIPM								1.1	1	1.6											1		
FY 2008 EQUIPM										1.0		0.0)								0		
FY 2009 EQUIPN														0.0	0						0		
FY 2010 EQUIPM	MENT															0.0					0	0.0	
FY 2011 EQUIPM																		0.	0		0		
TO COMPLETE			0	0.0	0	0.0	1	1.1	1	1.6	0	0.0	0	0.0	0 0	0.0	0	0.	0		2	2.7	
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INSTALLATION SCH	FY 2004	EV	2005	=	FY 20	206	1	FY 2007		FY 2	000		EV ·	2000	1	EV 2010	١	EV	′ 2011		TC	1	7
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Out			0	11	0	1 0	0	0 0	1								-		0	0		11	
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The two oooi platform	Jaiboara matana	Tiave all I	Jauy	Deen comp	noteu (and are for	THE HIDO	ara matana	auon.	11113 00111	7.0.00	0001	Jidas			VII (Z IVIOD	Lat	andrier o	youn		A		
•		Р	-1 SI	HOPPING L	IST 36	3				Page	e 10							CL	ASSIF	ICATION:		LASSIFIE	ED

FY 2006 BUDGET PRODUCTIO	N SCH	EDUL	_E, P-2	21														DATE						200						
APPROPRIATION/BUDGET ACT OTHER PROCUREMENT, I		,											We	apon	Sys	tem		P-1	ITEI	ΜN	OME	NC	LAT	URI						
·							Pro	ductio	on R	ate					Proc	curer	nen	t Lea	adtim	es										
		Mar	nufacti	ırer's								A	LT P	rior	AL	T A	ter	I	nitia		Re	eord	er					Un	it of	i
Item	1	Name	and L	ocatio	n	M	SR	1-8	3-5	M.	ΑX	to	о Ос	t 1	(Oct '	1	M	fg PL	T.	Mf	g Pl	LT		Tota	ıl		Mea	asur	е
6" CM's (ADC MK 3 & 4)	ULTF	RA, BF	RAINT	REE,	MA		10	200		200)																			
LAUNCH TUBES	NRAI	D, SA	N DIE	GO, C	A		15	200		200)																			
ADC MK 2 MOD 1	ULTF	RA, BF	RAINT	REE,	MA		10	200		200)																			
GG MK 77			IOENI)				15	200		200)																			
NAE BEACON			/ENTL		A		10	200		200																				
TARE BEAGGIT	7 (EE)	_D , v		71070			10	200		200																				
										FISC	CAL YE	AR 2	005									FIS	CAL Y	'EAR	2006					
ITEM / MANUFACTURER	F	S	Q	D	В		2004	1					CALE	NDAR	YEAR	2005							CA	LENE	AR Y	EAR 2	006			1
	Υ	V	Т	Е	Α	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α	S	В
		С	Υ	L	L	C T	0	Е	Α	E	A	Р	Α	Ü	U	U	Е	C T	0	Ε	A	Е	Α	Р	Α	U	U	U	Е	A L
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ADC MK 3	1		1																											\vdash
Ultra, Braintree, MA	05		151	0	151				Α												14	14	14	14	13	13	13	13	13	30
Ultra, Braintree, MA	06		175	0	175																	Α								175
TBD	07		155	0	155																									155
												-																		<u> </u>
ADC MK 4																														╂
Ultra, Braintree, MA	05		120	0	120				Α												10	10	10	10	10	10	10	10	10	30
Ultra, Braintree, MA	06		140	0	140																	Α								140
TBD	07		62	0	62																									62
HARDWARE CONTINUED ON P21(1)																														-
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ITEM / MANUFACTURER	F	s	Q	D	В		2006		FISC	AL YE	AR 20		CALE	NDAR '	/F / D	2007						FIS				EAR 2	007			ł
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						Т	V	C	N	В	R	R	Y	N	L	G	P	Т	V	С	N	В	R	R	Y	N	L	G	Р	L
ADC MK 3 Ultra, Braintree, MA	05		151	121	30	10	10	10																						0
Ultra, Braintree, MA Ultra, Braintree, MA	06	 	151	0	175	10	10	10	16	16	16	15	14	14	14	1/	14	1/	14	14										0
TBD	07		155	0	155				A	10	10	13	14	14	- 14	14	14	14	14	14	15	13	13	13	13	13	13	13	13	36
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ADOMY 4																														lacksquare
ADC MK 4 Ultra, Braintree, MA	05		120	90	30	10	10	10								1														0
Ultra, Braintree, MA	06		140	0	140	10	10	10	13	13	13	13	13	13	12	10	10	10	10	10										0
TBD	07		62	0	62				A		.0		.0		12	10	.0	.0	.0	.0	6	6	6	6	5	5	5	5	5	13
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HARDWARE CONTINUED ON P21(1)																														
Remarks:																														Щ.

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		ILE, P	-21													DATE													
												Wea	apon	Sys	tem		P-1	ITEN	ΛNO	OME	NC	LAT	URE	=					
	•					Pro	ductio	n R	Rate					Prod	urer	men	t Lea	adtim	es										
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F	s	Q	D	В	20	008			11007	,			NDAR '	YEAR	2009						1100				EAR 2	010			
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 															-														
05		151	151	0																									0
06		175	175	0																									0
07		155	119	36	13	13	10																						0
-																													
05		120	120	0																									0
06		140	140	0																									0
07		62	49	13	5	5	3																						0
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F	s	Q	D	В		2010					(CALE	NDAR	YEAR	2011														
Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N		M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J J	J L	A U G	S E P	B A L
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FY 2006 BUDGET PRODUCTION			JLE, P	-21														DATE			F	ebr	uary	200	6					
APPROPRIATION/BUDGET AC OTHER PROCUREMENT,												W	/ea _l	pon	Syst	tem		P-1	ITEI	M N	OME	ENC	LA1	URI	E					
							Pro	ductio	n R	ate					Proc	ure	men	t Lea	adtim	nes										
		Mar	nufactu	ırer's								ALT	Pri	ior	AL	T A	fter	I	nitia	l	Re	eord	ler					Ur	it of	
Item	1 1	Name	and L	ocatio	n	M	SR	1-8	-5	MA	x l	to C	Oct	1	(Oct '	1	Mf	g PL	_T	Mi	fg P	LT		Tota			Mea	asure)
6" CM's (ADC MK 3 & 4)			RAINT			-	10	200		200																				
LAUNCH TUBES			N DIE					200		200																				
ADC MK 2 MOD 1			RAINT				10	200		200																				
GG MK 77			OENI)			_	15	200		200	-																			
NAE BEACON			/ENTU		Δ			200		200																				
INAL BLACON	ALLII	LD, V	LIVIO	INA C			10	200		200	-																			
										FISCAL	YEAR	200	5											FIS	CAL Y	'EAR	2006			
ITEM / MANUFACTURER	F	S	Q	D	В	2	2004					CA	LENI	DAR \	/EAR	2005	5						С	ALEN	DAR '	YEAR	2006			
	Y	C	T Y	E L	A L	O C T	N O V	D E C	J A N	E	M A A F R F) <i>j</i>	4	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ZCL	J L	A U G	S E P	B A L
ADC MK 2 MOD 1																														
Ultra, Braintree, MA	05		705	0	705				Α														59	59	59	59	59	59	59	292
Ultra, Braintree, MA	06		130	0	130																	Α								130
TBD	07		335	0	335																									335
LAUNCH TUBES																														
NRAD, SAN DIEGO, CA	05		249	0	249					Α					21	21	21	21	21	21	21	21	21	20	20	20				0
NRAD, SAN DIEGO, CA	06		315	0	315																	Α						30	30	255
NRAD, SAN DIEGO, CA	07		217	0	217																									217
HARDWARE CONTINUED ON P21(3)																														
											FISC	CAL Y	′EAR	2007	7							FIS	SCAL	YEAF	2008	3				
ITEM / MANUFACTURER	F	s	Q	D	В	2	2006					CA	LENI	DAR \	/EAR	2007	7						С	ALEN	DAR '	YEAR	2008			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	E	M A A F R F) /	4	J U N	JUL	A U G	S E P	0 C T	N O V	D E C	ZYC	F E B	M A R	A P R	M A Y	$z \subset c$	J J	A U G	чπо	B A L
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ADC MK 2 MOD 1																														
Ultra, Braintree, MA	05		705	413	292	59	59	58	58	58																				0
Ultra, Braintree, MA	06		130	0	130				_	11	11 1	1 1	1	11	11	11	11	11	11	10	10						00	00		0
TBD	07		335	0	335				Α												28	28	28	28	28	28	28	28	28	83
LAUNCH TUBES																														
NRAD, SAN DIEGO, CA	05		249	249	0																									0
NRAD, SAN DIEGO, CA	06		315	60	255	30	30	30		23	23 2	3 2	3	23	23															0
NRAD, SAN DIEGO, CA	07		217	0	217				Α						19	19	19	19	19	19	19	18	18	16	16	16				0
HARDWARE CONTINUED ON P21(3)	I															1	1					1	1		1		1	1		I

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FY 2006 BUDGET PRODUCT			JLE, P	-21														DATE			F	ebru	uary	200	6					
APPROPRIATION/BUDGET A OTHER PROCUREMEN													We	apon	Sys	stem		P-1	ITEI	M N	ОМІ	ENC	LAT	URI	=					
							Proc	ductio	n R	ate					Prod	curer	nen	t Lea	adtim	nes										
Item			nufactu and L		n	М	SR	1-8	3-5	M	ΑX		_T P	-		₋T Af Oct 1		_	Initial fg PL	-		eord fg Pl			Tota	al		Unit Meas		
6" CM's (ADC MK 3 & 4)	ULTF	RA, BF	RAINT	REE,	MA		10	200		200									Ü											
LAUNCH TUBES			N DIE					200		200)																			
ADC MK 2 MOD 1			RAINT					200		200																				
GG MK 77			OENI)				15	200		200																				
NAE BEACON			'ENTU		A		10	200		200																				_
ITEM / MANUFACTURER	F	S	Q	_	D B 2008 E A O N D I E									NDAR	VEAD	2000						FISC		EAR		EAR 2	2010			
TEW/WANDI ACTOREK	Y	V C	T Y			O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S	B A L
ADC MK 2 MOD 1																														_
Ultra, Braintree, MA	05		705	705	0																									0
Ultra, Braintree, MA	06		130	130	0																									0
TBD	07		335	252	83	28	28	27																						0
LAUNCH TUBES NRAD, SAN DIEGO, CA	05		249	249	0																									0
NRAD, SAN DIEGO, CA NRAD, SAN DIEGO, CA	06		315	315	0																									0
NRAD, SAN DIEGO, CA	07		217	217	0																									0
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ITEM / MANUFACTURER	F	s	Q	D	В		20	10		1100	/\L L	-/ ((2		NDAR	VEAR	2 2011						1 100				EAR 2	2012			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U	S	B A L
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ROPRIATION/BUDGET ACTIVITY ER PROCUREMENT, NAVY													apon	Sys	tem		P-1	ITE	ΜN	OME	ENC	LAT	URE						
						Pro	ductio	on R	ate					Pro	cure	mer	nt Le	adtir	nes										
	Mar	nufactu	ırer's								AL	T Pi	rior	AL	T Af	fter		nitia		R	eor	der						Jnit	of
1	Name	and L	ocatio	n	M	SR	1-8	3-5	MA	Х	to	Oct	1	(Oct '	1	M	fg Pl	LT	М	fg P	LT		Tota	I		N	leas	ure
ULTF	RA, BF	RAINT	REE,	MA		10	200		200																				
							200		200																				
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05		249	0	249					Α					21	19	19	19	19	19	19	19	19	19	19	19	19			0
06		315	0	315																	Α						25	30	260
07		217	0	217																									217
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05		156	0	156										Δ						18	18	18	18	18	18	18	18	12	0
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07		95	0	95																									95
								FIS	CAL YE	AR 2	2007										FIS	CAL Y	EAR	2008					
F	S		D			20	06				(CALE	NDAR	YEAR	2007	7						CA	LEND	AR YE	AR 2	308			
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07		217	0	217				Α						18	19	19	19	19	19	19	18	18	18	18	13				0
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06		96	0	96		11	11	11	11	11	11	10	10	10															0
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07		95	0	95				Α						8	8	8	8	8	8	8	8	8	8	8	7	1			0
I	I ULTF NRA ULTF NRA ULTF NRA UPC ALLII F Y O5 O6 O7 F Y O5 O6 O7 O5 O5 O6 O7 O5 O5 O5 O5 O5 O5	Mar Name ULTRA, Bi NRAD, SA ULTRA, Bi UPCO, PH ALLIED, V F S Y V C O5 O6 O7 F S Y V C O5 O6 O7 O5 O6 O7 O5 O6 O7	Manufactu Name and L ULTRA, BRAINT NRAD, SAN DIE ULTRA, BRAINT UPCO, PHOENIX ALLIED, VENTU F S Q Y V T C Y 05 249 06 315 07 217 05 156 06 96 07 95 F S Q Y V T C Y	MAVY Manufacturer's Name and Locatio ULTRA, BRAINTREE, NRAD, SAN DIEGO, C ULTRA, BRAINTREE, UPCO, PHOENIX, AZ ALLIED , VENTURA C	Manufacturer's Name and Location ULTRA, BRAINTREE, MA NRAD, SAN DIEGO, CA ULTRA, BRAINTREE, MA UPCO, PHOENIX, AZ ALLIED, VENTURA CA F S Q D B Y V T E A C Y L L 05 249 0 249 06 315 0 315 07 217 0 217 05 156 0 96 07 95 0 95 F S Q D B Y V T E A C Y L L 05 156 0 156 06 96 0 96 07 95 0 95	Manufacturer's Name and Location ULTRA, BRAINTREE, MA NRAD, SAN DIEGO, CA ULTRA, BRAINTREE, MA UPCO, PHOENIX, AZ ALLIED, VENTURA CA F S Q D B Y V T E A C Y L L O5 249 0 249 O6 315 0 315 O7 217 0 217 O5 156 0 96 O7 95 0 95 F S Q D B Y V T E A C T O5 156 0 156 O6 96 0 96 O7 95 0 95 F S Q D B Y V T E A C T O5 156 0 156 O6 96 0 96 O7 95 0 95 F S Q D B Y V T E A C T O5 249 249 0 O6 315 55 260 29 O7 217 0 217	Manufacturer's Name and Location MSR ULTRA, BRAINTREE, MA 10 NRAD, SAN DIEGO, CA 15 ULTRA, BRAINTREE, MA 10 UPCO, PHOENIX, AZ 15 ALLIED , VENTURA CA 10	Manufacturer's Name and Location MSR 1-8	Manufacturer's Name and Location MSR 1-8-5	NAVY NAVY Production Rate	Manufacturer's Name and Location MSR 1-8-5 MAX	Manufacturer's Name and Location MSR	Manufacturer's Name and Location MSR 1-8-5 MAX to Oct	Manufacturer's Name and Location	Manufacturer's Name and Location MSR 1-8-5 MAX to Oct 1 Oct 1	Manufacturer's Name and Location MSR	Navy Production Rate	Production Rate	P-1 ITE	Production Rate	Production Rate	Production Rate	Name	Production Rate	Production Rate	Name and Location	Name and Location	Name and Location	Namu Production Rate

Remarks: NAE Beacons - Significant FMS demand that supplements contract deliveries.

DD Form 2445, JUL 87
Previous editions are obsolete
P-1 SHOPPING LIST 36
PAGE 15
Exhibit P-21 Production Schedule

CLASSIFICATION: UNCLASSIFIED

	BUD	GET ITEI	M JUSTIFICA	ATION SHEE		DATE:					
			P-40				Februa	ry 2006			
APPROPRIATION/BU	IDGET ACTIVIT	Υ				P-1 ITEM NOM	ENCLATURE				
OTHER PROCURE	MENT, NAVY	,	BA-2			SURFACE SI	HIP TORPEDO	DEFENSE 2	213		
Program Element for	Code B Items:					Other Related I	Program Elemer	nts			
	Prior	ID								То	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY			75	65	30	14	15	TBD	TBD	Cont.	Cont.
COST											
(In Millions)	0.0		33.1	28.4	8.4	5.8	10.1	4.6	4.7	Cont.	Cont.
SPARES COST											
(In Millions)											

SURFACE SHIP TORPEDO DEFENSE

The Surface Ship Torpedo Defense (SSTD) program is comprised of two major projects. The AN/SLQ-25A (NIXIE) towed acoustic countermeasure system has recently been upgraded to enhance ship survivability against the torpedo threat. The recent upgrades include a more reliable power amplifier (EC9), COTS Signal Generator (EC10) with new operational capability, an Enhanced EC16 capability, a new littoral cable for operation in shallow water, and associated upgraded "C" winch to accommodate the littoral cable. The funding stream provides for the FY 05-09 procurement and installation of this new capability on the majority of surface ship classes in the Navy and selected MSC ships. The second major project is the AN/WSQ-11 Torpedo Defense System comprised of an active (High Power Source) and passive (ACI) towed arrays and associate DCL Processor (Tripwire System) to detect and provide command orders for the launch of the associated hardkill Anti-Torpedo Torpedo (ATT). The procurement funding stream provides for procurement of long lead materials beginning in FY09, and procurement of AN/WSQ-11 Tripwire components for ship test and evaluation in FY10-11.

Congress added funding in FY06 to continue reliability and performance upgrades to the AN/SLQ-25A, with emphasis on completing the NIXIE Expansion Module Option, flexible NIXIE tow body, and upgrading the 25A to accommodate interface with other SSTD associated systems under an expanded open architecture concept.

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CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM COST A P-5	ANALYSIS				Weapon Syst	em			DATE:	February 2006	
Other Pro	IATION/BUDGET ACTIVITY curement, Navy rface Ship Torpedo Defense 0204228N 221300/221305						P-1 ITEM NOM			VI /H2WI \	Testuary 2000	
DA-Z. Ou	Trace only rospedo belense 02042201 221300/221300		TOTAL COST IN	N THOUSANDS OF	DOLLARS	I	ourrace orn	p Torpedo E	CICII3C (021	*L/112**L/		
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2005			FY 2006			FY 2007	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Expeditionary Warfare											
WL101	AN/SLQ-25A Upgrade Kits	Α		15	Various	3,584	15	Various	3,631	15	Various	3,711
WL830	Production Engineering - In House	А				484			516			586
WL900	Production Engineering - Out House Subtotal	A				75 4,143			75 4,222			75 4,372
	Ship Programs											
WL101	AN/SLQ-25A Upgrade Kits	А		46	Various	8,924	45	Various	8,890	15	Various	2,028
	DEC *	А				2,600			0			0
	AN/SLQ-25A Torpedo Countermeasure Set Upgrades **	А		** 8	Various	8,500	** 5	Various	5,800			0
WL830	Production Engineering - In House	А				371			481			379
WL900	Production Engineering - Out House Subtotal	А				75 20,470			75 15,246			75 2,482
	Aircraft Carrier Programs											
WL101	AN/SLQ-25A Upgrade Kits	А		6	Various	5,315	5	Various	4,770			0
WL830	Production Engineering - In House	А				310			296			0
WL900	Production Engineering - Out House Subtotal	А				50 5,675			50 5,116			0 0
	Total Equipment					30,288			24,584			6,854

DD FORM 2446, JUN 86

Remarks: AN/SLQ-25A Upgrade Kits unit cost will vary due to 11 various configurations. (Variations occur within ship class)

FY 05	FY 06	FY 07
2 LHD	1 LHD	5 LHD
5 LPD	4 LPD	5 LPD
6 LSD	8 LSD	4 LSD
2 LHA	2 LHA	1 LHA
20 CG 47	8 CG 47	9 CG 47
25 DDG 51	37 DDG 51	6 DDG 51
1 FFG	5 CV/CVN	
6 CV/CVN	5 Engineering Changes/	
8 Engineering Changes/	Open Architecture Compatability	
Open Architecture Compatability	(Congressional Plus-Up)	
(Congressional Plus-Up)		

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CLASSIFICATION:

2 UNCLASSIFIED

PAGE NO. 2

^{*} Distributed Engineering Center (DEC) - FY 05 DEC Congressional Plus-Up

^{**} AN/SLQ-25A Torpedo Countermeasure Set Upgrades - FY 05/ FY 06 Congressional Plus-Up

CLASSIFICATION:

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	WEAPONS SYSTEM COS	T ANAL	YSIS			Weapon Syster	m			DATE:		
	P-5 RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM NOME	NCLATURE/SUBI	HEAD		February 2006	
	rocurement, Navy Surface Ship Torpedo Defense 0204228N 221300/221	205					Surface Shin	Torpedo Defe	nco (C3WI /L	2WI)		
DA-2. 3	difface Ship Torpedo Delense 0204226N 221300/221	303	TOTAL COST IN	THOUSANDS OF	DOLLARS	<u> </u>	Surface Ship	Torpedo Dere	HISE (CZVVL/H	ZVVL)		
0007	ELEMENT OF COST	ID	Prior	1	FV 000F		ı	FY 2006		ı	EV 0007	
COST	ELEMENT OF COST	Code	Years		FY 2005			FY 2006			FY 2007	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
HBINS	INSTALLATION											
	EXPEDITIONARY WARFARE					779			788			803
	SURFACE WARFARE					1,278			2,213			747
	AIR WARFARE					799			808			0
	TOTAL INSTALL					2,856			3,809			1,550
	TOTAL EQUIPMENT & INSTALL					33,144			28,393			8,404

P-1 SHOPPING LIST 37

CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY	AND PLAN	NING EX	(HIBIT (P-5A)			Weapon System		A. DATE		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement, Navy BA 2 BLI 221300					Surface Sh	ip Torpedo Defense			(C2WL/H2W	/L)
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY05 AN/SLQ-25A Upgrade Kits - WL101	67	Var	NAVSEA	N/A	Option/ FFP	ARGONST, Uniontown PA	6/05	12/05	N/A	N/A
AN/SLQ-25A Engineering Changes - WL101	8	Var	NAVSEA	N/A	Option/ FFP	ARGONST, Uniontown PA	6/05	12/05	N/A	N/A
FY06 AN/SLQ-25A Upgrade Kits - WL101	65	Var	NAVSEA	02/06	SS/ FFP	ARGONST, Uniontown PA	5/06	11/06	N/A	N/A
FY07 AN/SLQ-25A Upgrade Kits - WL101	30	Var	NAVSEA	5/06	C/ FFP	TBD	4/07	10/07	N/A	N/A
D. REMARKS										

D. REMARKS

AN/SLQ-25A Upgrade Kits unit cost will vary due to 11 various configurations. (Variations occur within ship classes).

P-1 SHOPPING LIST 37 Classification: DD Form 2446-1, JUL 87

CLASSIFICATION UNCLASSIFIED

P3A					BLI 221300
MODELS OF SYSTEM AFFECTED: AN	N/SLQ-25A UPGRADE KITS	TYPE MODIFICATION:	AIT	MODIFICATION TITLE:	
DESCRIPTION/JUSTIFICATION:	V. 50 50 40 50 45 150 40				
UPGRADE AN/SLQ-25A SYSTEMS. Upgrade I	kits are E-9, EC-10, EC-15, and EC-16.				

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	QTY	FY04 and Prior \$	<u>FY</u> QTY	<u>2005</u> \$	<u>FY</u> QTY	<u>2006</u> \$	<u>FY</u> QTY	<u>2007</u> \$	<u>FY</u> QTY	<u>2008</u> \$	<u>FY</u> QTY	<u>2009</u> \$	<u>FY</u> QTY	<u>2010</u> \$	<u>FY</u> QTY	<u>2011</u> \$] QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																		
RDT&E																		
<u>PROCUREMENT</u>																		
INSTALLATION KITS																		
INSTALLATION KITS - UNIT COST																		
INSTALLATION KITS NONRECURRING																		
EQUIPMENT	21	8.2	67	17.8	65	17.3	30	5.8	14	4.1	15	4.3		0.0		0.0	212	57.5
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER/ ENGINEERING CHANGES (Congressional Plus-Up)			8	8.5	5	5.8											13	8.5
OTHER (Production Engineering)		0.9		1.3		1.5		1.1		0.5		0.6						5.9
OTHER/DEC Congressional Plus up		2.6		2.6														5.2
INTERIM CONTRACTOR SUPPORT																		
INSTALL COST	21	1.9	67	2.9	65	3.8	30	1.5	14	1.2	15	1.2		0.0		0.0	212	12.5
TOTAL PROCUREMENT		13.6		33.1		28.4		8.4		5.8		6.1		0.0		0.0		89.6

P3A (Continued)			INDIVIDUA	L MC	DIFICATION	ON (Co	ontinued)															February BLI 2213	
MODELS OF SYSTEM	IS AFFECTED	: <u>AN/</u>	SLQ-25A U	pgrac	de Kits		MODI	FICATIO	ON TITLE:		AIT											DLI ZZ IO	
INSTALLATION INFO		ΛIT																					
ADMINISTRATIVE LE		AH		-	DBUDITC.	TION I	LEADTIME:		1_3	Mon	the												
CONTRACT DATES:				-	FY 2006:	HON	LLAD I IIVIL.	-	1-3	IVIOI	FY 2	007											
DELIVERY DATE:	FY 2005:	=			FY 2006:				<u> </u>		FY 2												
										(\$ in	Millions)												
Cost:			4 and Prior		Y 2005		Y 2006		2007		Y 2008		Y 2009		Y 2010		Y 2011		Complete				
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS										1						!							
FY 2004 EQUIPMEN	T and Prior	21	1.9																	21	1.9		
FY 2005 EQUIPMEN	Т			67	2.9															67	2.9		
FY 2006 EQUIPMEN	Т					65	3.9													65	3.9		
FY 2007 EQUIPMEN	Т							30	1.5											30	1.5		
FY 2008 EQUIPMEN	Т									14	1.2									14	1.2		
FY 2009 EQUIPMEN	Т											15	1.2							15	1.2		
FY 2010 EQUIPMEN	Т														0.0					0	0.0		
FY 2011 EQUIPMEN																	0.0			0	0.0		
TO COMPLETE		21	1.9	67	2.9	65	3.9	30	1.5	14	1.2	15	1.2		0.0		0.0			212	12.6		
INSTALLATION SC	HEDULE:																						
	FY 2004	1	FY 2	005		FY 2	006	F	Y 2007		FY 2	2008		FY 2	2009		FY 2010		FY 2	011		TC	
	& Prior		1 2	3	4 1	2	3 4	1	2 3	4	1 2	3	4 1	2			2 3	<u>4</u>		3	4	TOTAL	
In					23 0	22		0	10 10			5	4 0	5	5 5	0	0 0	0			0	0 212	
Out			0 22		23 0				10 10			5	4 0	5	5 5	0		0	-	0	0	0 212	
NOTE:																							
																					P-3A		
			P-1 S	SHOP	PING LIST	37					Page	6							CLAS	SSIFIC		UNCLASSIFIE	D

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

CLASSIFICATION UNCLASSIFIED

INSTALL COST

TOTAL PROCUREMENT

РЗА																iary 200 21300	06
MODELS OF SYSTEM AFFECTED: AN/WSQ-11TRIPWIRE SYS	TEM	TYPE MC	DIFICA	ATION:		AIT		-		MOD	IFICAT	TION T	TTLE:				
DESCRIPTION/JUSTIFICATION:																	
AN/WSQ-11 Tripwire LRIP shipsets.																	
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONE	S:																
		FY04 and	<u>d</u>														
	QTY	Prior \$	<u>FY</u> QTY	2005 \$	FY: QTY	200 <u>6</u>		<u>2007</u> \$	<u>2008</u> \$		<u>2009</u> \$	<u>FY</u> QTY	2010 ¢	<u>FY</u> QTY	2011 ¢	<u>T</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)	QTT	Ψ		Ψ 	QII	Ψ	QIII	Ψ	Ψ 	QIII	Ψ	QIII	Ψ	QIII			Ψ
RDT&E																	
PROCUREMENT																	
INSTALLATION KITS																	
INSTALLATION KITS - UNIT COST																	
INSTALLATION KITS NONRECURRING																	
EQUIPMENT		0.0		0.0		0.0		0.0	0.0	TBD	3.1	TBD	3.5	TBD	3.5		10.1
EQUIPMENT NONRECURRING																	
ENGINEERING CHANGE ORDERS																	
DATA																	
TRAINING EQUIPMENT																	
SUPPORT EQUIPMENT																	
OTHER/ ENGINEERING CHANGES																	
OTHER (Production Engineering)											0.8		0.4		0.5		1.8
OTHER																	
INTERIM CONTRACTOR SUPPORT																	

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

3.9

0.0 TBD 0.7 TBD 0.7

1.4

13.3

CLASSIFICATION: UNCLASSIFIED																						
P3A (Continued)	INDIVIDU	AL MO	DIFICATI	ON (C	ontinued)																Februar BLI 221	
MODELS OF SYSTEMS AFFECTED: 1	AN/WSQ-11 T	RIPWII	RE SYST	EM	MOD	IFICATI	ON TITLE	:	AIT											-		
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: A ADMINISTRATIVE LEADTIME: CONTRACT DATES: FY 2005: _ DELIVERY DATE: FY 2005: _	AIT	_	PRODUC FY 2006: FY 2006:		LEADTIME	i:	1-3	Мо	nths FY 2 FY 2									-				
								(\$ i	n Millions)													
Cost:			4 & Prior	F'	Y 2005	FY	2006		Y 2007		Y 2008		Y 2009		Y 2010	F'	Y 2011		Complete	Total		
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
FY 2004 & PRIOR		0	0.0																	0	0.0	
FY 2005 EQUIPMENT				0	0.0															0	0.0	
FY 2006 EQUIPMENT						0	0.0													0	0.0	
FY 2007 EQUIPMENT								0	0.0											0	0.0	
FY 2008 EQUIPMENT										0	0.0)								0	0.0	
FY 2009 EQUIPMENT												0	0.0							0	0.0	
FY 2010 EQUIPMENT														TBD	0.7					TBD	0.7	
FY 2011 EQUIPMENT																TBD	0.7	,		TBD	0.7	
TO COMPLETE		0	0.0	0	0.0		0.0)	0.0		0.0)	0.0		0.7		0.7	,		0	1.3	
INSTALLATION SCHEDULE:																						
FY 2004	FY 2	<u> 2005</u>			2006		FY 2007		FY 2				2009		FY 2010		FY:	<u> 2011</u>		<u>TC</u>		
& Prior	1 2	3	4 1	2	3 4	1	2 3				4 1	2	3 4	1	2 3	<u>4</u>	1 2	3			TOTAL	
In	0 0		0 0	0	0 0	0	0 0	0		0	0 0 0 0		0 0 0 0	0	0 0 0	0	0 0 0 0	0		0	0	
NOTE:																			P-3			
	D_1 9		DINIC LIST	Г 27					Page	·Ω							CI A	SSIF	ICATION	· HNC	LASSIFI	ED.

CLASSIFICATION

CLASSII ICATION											
EXHIBIT P-40, BUDGET I	TEM JUSTIF	ICATION						DATE	Eob	ruary 2006	
APPROPRIATION/BUDGET ACTIVIT OP,N - BA2 COMMUNICATIONS & E		PMENT				P-1 ITEM NOM Surveillance To	IENCLATURE E wed Array Sensor			SUBHEAD 72VG	
	PY		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY											
COST (in millions)			7.118	3.797	4.688	1.191	23.577	24.003	1.471	Continuing	Continuing

PROGRAM COVERAGE: Surveillance Towed Array Sensor System (SURTASS) is the mobile, tactical and strategic arm of the Navy's undersea surveillance capability that provides deep ocean and littoral acoustic detection and cueing for tactical weapon platforms against both diesel and nuclear submarines as well as surface vessels in any given Area of Operations worldwide. Dedicated ASW T-AGOS ships (and one leased platform) tow long acoustic arrays that collect acoustic data and relay that data to shore facilities via SHF satellites for processing and fusion of the resulting contact data with other sensors. There are four T-AGOS ships and one leased platform operating in the Pacific area. Currently, ship configurations are: (1) Three T-AGOS Small Waterplane Area Twin Hull (SWATH) ships. This ship class utilizes the Acoustic Rapid COTS Insertion (ARCI) signal processing and display system that was developed in 2002 and is common with the SSN Sonar Processing System. The new TB-29A Twinline and A180R Twinline arrays provide improved detection and classification capability and allow those ships equipped with it to operate in a bi-static mode with the other active T-AGOS platforms that are equipped with the Low Frequency Active (LFA) system; and. (2) Two Low Frequency Active (LFA) equipped ships including the first "large" SWATH ship, T-AGOS 23 USNS IMPECCABLE, and the R/V CORY CHOUEST. Both the CORY CHOUEST and T-AGOS 23 are configured with the Next Evolution Processing and Display system and both are equipped with the Low Frequency Active (LFA) capability. The active capability provides greatly improved detection against diesel submarines as well as the quiet nuclear submarine threat. The active capability will be provided to the three smaller SWATH ships over the next five years with the introduction of Compact Low Frequency Active systems. The initial RDT&E system will be installed and tested in FY07 and FY08 and the first and second production systems will be procured under this line item in FY09 and FY10 respectively. In addition to the five platforms described above, two shore sites are configured with the Next Evolution processing and display and ARCI suites to receive the T-AGOS acoustic data via SHF satellite communication links. Major upgrades to these platforms and shore sites in FY05 through FY07 include TB-29 Twinline Arrays, the Integrated Common Processor (ICP) signal processing and display upgrade that provides improved ship and shore processing suites in support of the TB-29A twinline arrays and active processing, and Communication C4I upgrades. A cost sharing agreement with Japan also provides a shore site and two Japanese SWATH ships with similar capability to the T-AGOS SWATH ships for the Western Pacific region. The Japanese Auxiliary Ocean Surveillance (JAOS) SWATH ships have been upgraded with the Next Evolution computer processing and display suites. Under the cost sharing agreement, the JAOS ships were upgraded with the newer twinline A180R passive receiving arrays in FY04, and will be updated with the ICP.

SURTASS OPN funded subheads include:

VG006 (FY05-FY07):Upgrade Procurement - ICP signal processing and display upgrade for SURTASS platforms, ICP signal processing and display upgrade for J-AOS 2, GCCS-M 4.0 ship suites, twinline array support equipment, ICP Shore OPS and Maintenance Trainers at SUBLRNFAC Norfolk, VA,and NOPF WI, WA, Comms/C4I upgrade to INMARSAT B HSD suites, and Configuration Control Model (CCM) Tech Refresh system.

VG007 (FY05-FY07): Field Changes/Modifications- Provide for correction of deficiencies identified by Fleet use, array support equipment, communications equipment, and replacement of aging/unsupportable equipment.

VG010 (FY05-FY07): Electronics Upgrade-Provides ICP signal processing and display hardware shipsets.

VG776 (FY05-FY07); Installation of Equipment Installation Agents; SSC Charleston, SSC San Diego, and General Dynamics, Anaheim Hills, CA.

UNCLASSIFIED CLASSIFICATION

											DATE				
EXHIBIT F	P-5, COST ANALYSIS											Fe	bruary	2006	
APPROPR	ATION ACTIVITY							P-1 ITEM NO	MENCLATUR	RE BLI	2237		SUBHE	AD	
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT							Surveillance	Towed Array	y Senso	or (SURTAS			72VG	
									TOTA	L COS	T IN THOUS	ANDS OF D	OLLAR	S	
			PY		FY 2005			FY 2006	6		FY 2007	•		FY	
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
VG006	UPGRADE PROCUREMENT														
	Block Upgrade/Common Processor (J-AOS 1 & 2)	Α		1	300	300									
	Twinline Arrays	Α				555									
	Trainers	Α		2	718	,									
	Communication/C4I Upgrades	Α		5	33	165									
	Communication/C4I Upgrades Refresh Technology	Α					5	214.4	1,072						
	Common Processor (Configuration Control Model)	Α								1	2,850	2,850			
VG007	FIELD CHANGES/MODIFICATIONS	Α				250			1,267			1,071			
VG010	ELECTRONICS UPGRADE														
	Common Processor Ship Electronics	Α		5	800	4,000						0			
VG776	INSTALLATION OF EQUIPMENT NON-FMP Ship Installation					412			1,458			767			
Damada	TOTAL CONTROL					7,118			3,797			4,688			
Remarks:															

Exhibit P-5, Cost Analysis
Unclassified

UNCLASSIFIED CLASSIFICATION

								A. DATE		
EXHIBIT P-5a, PROCUREMENT HISTORY AND PL	ANNING								February 200	6
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITE	M NOMENCLAT	JRE BLI 2237			SUBHEAD	
OP.N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				Surveilland	e Towed Array S	Sensor (SURTASS)			72VG	
ELEMENT OF COST	QTY	UNIT	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST Delivery	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY05										
UPGRADE PROCUREMENT										
Block Upgrade / Common Processor (J-AOS 1 & 2)	1	300	SPAWAR		CPAF/OP	General Dynamics-AIS	Sep-05*	Sep-06	Yes	N/A
Trainers	2	718	SPAWAR		CPAF/OP	General Dynamics-AIS	Jan-05	Dec-05	Yes	N/A
ELECTRONICS UPGRADE										
Common Processor Ship Electronics	5	800	SPAWAR		CPAF/OP	General Dynamics-AIS	Feb-05	Jan-06	Yes	N/A
FY06										
UPGRADE PROCUREMENT										
Communication/C4I Upgrades Refresh Technology	5	214.4	SPAWAR		CPFF/OP	SAIC San Dego CA	Feb-06	Nov-06	Yes	N/A
FY07										
UPGRADE PROCUREMENT		1					 			
Configuration Control Model Processing Suite	1	2850	NAVSEA		FFP	TBD	Dec-06	Feb-07	Yes	N/A
		1		<u> </u>				<u> </u>		<u> </u>

*Late award date due to timing of FMS funds availability as part of Cost Share Agreement

Notes:

Trainer unit costs are averaged.

Exhibit P-5a, Procurement History and Planning Unclassified Classification

OUTPUT

Notes/Comments

February 2006

MODIFICATION TITLE: Block Upgrade /Common Processor (ASWC and J-AOS 1 & 2)

COST CODE: VG006

MODELS OF SYSTEMS AFFECTED:

JAOS Shore (ASWC/SES) and JAOS Ship (J-AOS 1 & J-AOS 2)

J-AOS SURTASS upgrades to Common Processor Baseline on a cost share basis is planned so that software is common with US. In FY05, J-AOS-2 Integrated Common Processor suite will be procured. ASWC/SES DESCRIPTION/JUSTIFICATION: and J-AOS-1 suites, that were procured in FY03 and FY04, will be installed in FY07 per agreement with the host.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(*	PY		<u>E</u>	Y04	FY	05	<u>F</u>	Y 06	<u>F</u>	Y 07	<u>FY</u>	<u>/08</u>	FY	09	FY	<u>/10</u>	E.	Y11	<u>T</u>	<u>.c</u>	To	otal_
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 12 EQUIP FY 11 EQUIP FY 12 EQUIP FY 15 EQUIP FY 16 EQUIP FY 17 EQUIP FY 17 EQUIP FY 17 EQUIP	2	0.713	Gay	,	1	0.300		Ţ	2 1	0.100 0.050	GLY .	Ţ	us.y	v		Ū	Sity	v			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0.000 0.000 0.000 1.013 0.0000 0.00000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	3	0.150	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	3	0.150
TOTAL PROCUREMENT COST	2	0.713	0	0.000	1	0.300	0	0.000	0	0.150	0	0.000	0	0.000		0.000	0	0.000	0	0.000	3	1.163
METHOD OF IMPLEMENTATION:								ADMINI	STRATIVE I	LEADTIME:			2 Months		PRODU	CTION L	EADTIN	1E:	12 Mont	hs		
CONTRACT DATES:	FY2004:		N/A		FY2005:		Sep-	05	FY2006:		N/A		FY2007:		N/A							
DELIVERY DATES:	FY2004:		N/A		FY2005:		Sep-	06	FY2006:		N/A		FY2007:		N/A							
INSTALLATION SCHEDULE: PY	1	2	FY04 3	4	-	1	2	<u>FY 05</u> 3	4	_	1	2	<u>FY 06</u> 3	4	_		1	2	<u>FY 07</u> 3	4		
INPUT																		3				
OUTPUT																		2	1			
INSTALLATION SCHEDULE:	1	2 <u>FY</u>	<u>08</u> 3	4	-	1	2	<u>FY 09</u> 3	4	_	1	2	FY10 3	4	-	1	2	FY11 3	4		TC	TOTAL 3

Exhibit P-3a, Individual Modification Program Unclassified Classification

3

MODIFICATION TITLE: TB-29A Twinline Arrays February 2006

COST CODE: MODELS OF SYSTEMS AFFECTED:

VG006 SURTASS T-AGOS Ships

DESCRIPTION/JUSTIFICATION:

The TB-29A Twinline is a shallow water variant of the common array that is being produced by NAVSEA. The array consists of 2 short array lengths and is designed for increased surveillance capability in high clutter environments and littoral areas. Five TB-29A arrays have been procured in FY02, 03 and 04. FY05 procurement is for ancillary test sets, array paravane wing sets and array module

modifications and testing. FY05 Installation funding is not required for the support equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)			_				_						_				_		_		_	
	PY Qty	\$	I Qtv	<u>Y 04</u> \$	<u>FY</u> Qtv	<u>05</u> \$	L Qtv	<u>/ 06</u> \$	L Qtv	<u>′ 07</u> \$	<u>FY</u>	<u>08</u> \$	l Qtv	<u>/09</u> \$	<u>FY</u> Qtv	<u>10</u> \$	I Qtv	<u>/11</u> \$	Qty I	<u>C</u> \$	To Qty	<u>tal</u> \$
RDT&E	Qly	ð	Qty	ą.	Qty	ð	Qiy	Ą	Qiy	φ	Qiy	Đ	Qty	ð	Qty	φ	Qty	Ф	Qty	ð	Qiy 0	0.000
PROCUREMENT:																					0	0.000
Kit Quantity																					0	0.000
Installation Kits																					0	0.000
Installation Kits Nonrecurring																					0	0.000
Equipment	5	32.536																			5	32.536
Equipment Nonrecurring																					0	0.000
Engineering Change Orders																					0	0.000
Data																					0	0.000
Training Equipment						0.555															0	0.000
Support Equipment Other					Various	0.555															Various 0	0.555 0.000
Interim Contractor Support																					0	0.000
Installation of Hardware																					0	0.000
PRIOR YR EQUIP					3	0.255	2	0.250													5	0.505
FY 05 EQUIP																					0	0.000
FY 06 EQUIP																					0	0.000
FY 07 EQUIP																					0	0.000
FY 08 EQUIP																					0	0.000
FY 09 EQUIP FY 10 EQUIP																					0	0.000
FY 10 EQUIP FY 11 EQUIP																					0	0.000
FY TC EQUIP																					0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	3	0.255	2	0.250	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	0.505
TOTAL PROCUREMENT COST	5	32.536	0	0.000	0	0.810	0	0.250	0	0.000	0	0.000		0.000	0	0.000	0	0.000	0	0.000	5	33.596
METHOD OF IMPLEMENTATION:						ADMINIS	STRATIV	E LEADTI	ME:		2 months	3	PRODU	CTION LE	ADTIME:	21 to 24	months	dependi	ng on tota	al buy		
CONTRACT DATES:			FY2004	:	N/A		FY2005	:	N/A		FY2006:		N/A		FY2007:		N/A					
DELIVERY DATES:			FY2004		N/A		FY2005:		N/A		FY2006:		N/A		FY2007:		N/A					
DELIVERY DATES.			1 12004	•	11/73		1 12003		IN/A		1 12000.		IN/A		1 12007.		IN/A					
			FY04					FY 05					FY 06						FY 07			
INSTALLATION SCHEDULE: PY	1_	2	3	4	_	1	2	3	4	_	1	2	3	4			1	2	3	4		
INPUT								1	2				1	1								
OUTPUT								1	1		1		1	1								
001701													'	'								
		FY						Y 09					Y10					<u>′ 11</u>				
INSTALLATION SCHEDULE:	1	2	3	4	_	1	2	3	4	_	1	2	3	4	•	1	2	3	4		TC	TOTAL
INPUT																						5
OUTPUT																						5
Notes/Comments:																						J
																						_

Exhibit P-3a, Individual Modification Program Unclassified Classification

MODIFICATION TITLE: Trainers February 2006

COST CODE: MODELS OF SYSTEMS AFFECTED:

VG006

SURTASS Ship/Shore Trainers

DESCRIPTION/JUSTIFICATION:

SURTASS trainers at SUBLRNFAC, Norfolk, VA and NOPF WI will be upgraded to add the Common Processor ship/shore configurations. SUBLRNFAC will be outfitted with a shore ops and maintenance trainer, and NOPF WI will

be outfitted with a ship ops trainer and a ship/shore maintence trainer.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

N/A

(*)	PY		FY	<u> 104</u>	<u>F</u>	Y 05	<u>F</u>)	/ 06		Y 07	<u>F</u>	Y08	FY09		FY10		Y11		TC	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				0	0.000
PROCUREMENT:																				0	0.000
Kit Quantity																				0	0.000
Installation Kits																				0	0.000
Installation Kits Nonrecurring																				0	0.000
Equipment																				0	0.000
Equipment Nonrecurring																				0	0.000
Engineering Change Orders Data																				0	0.000
					_	4 400														0	0.000
Training Equipment					2	1.436														2	1.436
Support Equipment Other																				0	0.000
Interim Contractor Support																				0	0.000 0.000
Installation of Hardware																				0	
PRIOR YR EQUIP																				0	0.000 0.000
FY 05 EQUIP							2	0.300												2	0.000
FY 06 EQUIP							2	0.300												0	0.000
FY 07 EQUIP																				0	0.000
FY 08 EQUIP																				0	0.000
FY 09 EQUIP																				0	0.000
FY 10 EQUIP																				0	0.000
FY 11 EQUIP																				0	0.000
FY TC EQUIP																				0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	2	0.300	0	0.000	0	0.000	0 0.000	0	0.000	0	0.000	0	0.000	2	0.300
TOTAL PROCUREMENT COST	0	0.000	0	0.000	2	1.436	0	0.300	0	0.000	0	0.000	0 0.000	0	0.000	0	0.000	0	0.000	2	1.736
METHOD OF IMPLEMENTATION:		0.000		0.000				LEADTIME:			1 month		PRODUCTION LE		0.000	12 months			0.000		11100
CONTRACT DATES:	FY2004:		N/A		FY 2005	:	Jan-05	5		FY2006:		N/A	FY2007:		N/A						
DELIVERY DATES:	FY2004:		N/A		FY 2005		Dec-05	5		FY2006:		N/A	FY2007:		N/A						
						•															
			FY04					FY 05					FY 06					FY 07			
INSTALLATION SCHEDULE: PY	1	2	3	4		1	2	3	4	_	1	2	3 4	_		1	2	3	4	•	
INPUT												2									
OUTPUT												2									
0011 01												2									
		FY 0						<u>/ 09</u>					<u>Y 10</u>				<u>11</u>				
INSTALLATION SCHEDULE:	1	2	3	4		1	2	3	4	_	1	2	3 4	_	1	2	3	4	_	TC	TOTAL

INPUT

OUTPUT

Notes/Comments

Exhibit P-3a, Individual Modification Program

2

2

Unclassified Classification MODIFICATION TITLE: Communications/C4I Upgrades February 2006

COST CODE: VG006

MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ships

DESCRIPTION/JUSTIFICATION: Communication/C4I Upgrades provides IT-21 communications upgrades for SURTASS ships for improved network centric connectivity to deploying Battle Groups. FY 05 procurement provides

INMARSAT B upgrade from 64kbps to 128kbps capability. Five upgrade kits will be procured and forwarded to ships for installation and tests; therefore, no install funds are required. FY 05 installation is

one ADNS upgrade from prior year funding.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

FINANCIAL PLAN: (\$ in millions)

	PY		FY04	<u>F</u>	Y 05		06	FY	07	FY	<u> 80</u>	FY	09		<u>′10</u>		Y11		<u>ΓC</u>	To	<u>ital</u>
	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY TOTAL INSTALLATION COST TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	1 0 1	0.280 0.000 0.280	0 0.000 0 0.000	5	0.165 0.030 0.030 0.195 ADMINIS	5*	0.000	0 0	0.000 0.000	0 0	0.000	0 0 PRODUC	0.000	0 0	0.000	0 0	0.000 0.000	0 0	0.000 0.000	0 0 0 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0.000 0.000 0.000 0.000 0.445 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000
WETHOD OF IMPLEMENTATION.					ADMINIC	HINATIV	L LLAD	IIVIL.				rkoboc	JIION L	LADIIIVI	L.						
CONTRACT DATES:			FY2004:	N/A		FY2005	:	July-05		FY2006:		N/A		FY2007:		N/A					
DELIVERY DATES:			FY2004:	N/A		FY2005	:	Dec-05		FY2006:		N/A		FY2007:		N/A					
INSTALLATION SCHEDULE: PY INPUT OUTPUT	1	2	FY04 3 4	_	1	2 1 1	FY 05 3	4		1	5 5	FY 06 3	4			1	2	FY 07 3	4		
INSTALLATION SCHEDULE:	1	2 <u>FY (</u>	0 <u>8</u> 3 4	_	1	<u>FY</u> 2	⁷ 09 3	4		1	2 FY	<u>′ 10</u> 3	4		1	<u>F)</u> 2	<u>/ 11</u> 3	4		TC	TOTAL 6

Notes/Comments

OUTPUT

6

^{*}Five upgrade kits will be forwarded to ships for installation and tests; therefore, no install funds are required.

RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring

Equipment
Equipment Nonrecurring
Engineering Change Orders
Data
Training Equipment
Support Equipment
Other

Interim Contractor Support
Installation of Hardware
PRIOR YR EQUIP
FY 05 EQUIP
FY 06 EQUIP
FY 06 EQUIP
FY 08 EQUIP
FY 09 EQUIP
FY 10 EQUIP
FY 10 EQUIP
FY 10 EQUIP
FY 10 EQUIP
FY TC EQUIP
FOTAL INSTALLATION COST
TOTAL PROCUREMENT COST
METHOD OF IMPLEMENTATION:

February 2006

MODIFICATION TITLE: Communications/C4I Upgrade Refresh Technology

COST CODE:

VG006

MODELS OF SYSTEMS AFFECTED:

SURTASS TAGOS Ships

DESCRIPTION/JUSTIFICATION:

Communications/C41 Upgrade Refresh Technology upgrades existing GCCS-M 3.1.1.2 Hardware/Software to GCCS-M 4.0 in FY06.

N/A

N/A

FY2004:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

PY		<u> </u>	Y 04	FY	<u>′ 05</u>	E	Y 06	E	Y 07	FY	08	<u>F</u>	<u>′09</u>		<u>/10</u>	<u>F</u>	Y11		<u>rc</u>	Tot	al
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
																				0	0.00
																				0	0.00
																				0	0.000
																				0	0.000
																				0	0.000
						5	1.072										-			5	1.072
																				0	0.000
																				0	0.000
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																				0	0.000
								5	0.300											5	0.300
																				0	0.000
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																				0	0.000
																				0	0.000
	0.000	_	0.000	_	0.000		0.000	_	0.000	_	0.000		0.000	_	0.000		0.000	_	0.000	0	0.000
0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
0	0.000	0	0.000	0	0.000	5	1.072	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	1.072
							ADMINIS	IKATIVE	LEADTIME:			2 Months		PRODUC	TION LEA	DTIME:		F 106 G	CCS-M -1	U IVIONTAS	

FY2006:

Feb-06

FY2007:

N/A

DELIVERY DATES: FY2004: N/A FY2005: N/A FY2006: Nov-06 FY2007: N/A FY04 FY 05 FY 06 FY 07 INSTALLATION SCHEDULE: PY INPUT 5 OUTPUT 5 FY 09 INSTALLATION SCHEDULE: TOTAL

FY2005:

N/A

INPUT

OUTPUT

Notes/Comments

CONTRACT DATES:

5

Exhibit P-3a, Individual Modification Program

5

Unclassified Classification MODIFICATION TITLE: Compact Low Frequency Active February 2006

FY 06

COST CODE: VG006

MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ships

DESCRIPTION/JUSTIFICATION: The Compact Low Frequency Active (CLFA) system will provide active capability for the TAGOS SWATH platforms (T21 and T22). The current Low Frequency Active system on the Large SWATH T-23 and RV Cory Chouest consists of 21 source modules (4,300 lbs. each), a curved tracked handling system (130,000 lbs.) and 21 inboard Power Amplifiers (2,300 lbs each). This new CLFA system, which allows better

FY 07

detection of the quiet diesel submarines, utilizes current technology with lighter weight and smaller components at a total weight of approximately one-third of the existing LFA technology. Production systems will be

FY08

FY09

FY10

FY11

TC

Total

procured in FY09 and FY10 following successful demonstration of EDM capabilities.

FY 05

FY04

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Qty	\$	Qty	<u></u> \$	Qty	\$	Qty	<u>. 00</u> \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	<u></u>	Qty	\$
RDT&E	,							-		-											0	0.000
PROCUREMENT:																					0	0.000
Kit Quantity																					0	0.000
Installation Kits																					0	0.000
Installation Kits Nonrecurring Equipment													1	18,100	1	18,413					0 2	0.000 36,513
Equipment Nonrecurring													'	16,100	'	10,413					0	0.000
Engineering Change Orders																					0	0.000
Data																					0	0.000
Training Equipment																					0	0.000
Support Equipment																					0	0.000
Other																					0	0.000
Interim Contractor Support																					0	0.000
Installation of Hardware PRIOR YR EQUIP																					0 0	0.000
FY 05 EQUIP																					0	0.000
FY 06 EQUIP																					0	0.000
FY 07 EQUIP																					0	0.000
FY 08 EQUIP																					0	0.000
FY 09 EQUIP													1	4,007							1	4,007
FY 10 EQUIP															1	4,087					1	4,087
FY 11 EQUIP FY TC EQUIP																					0 0	0.000
TOTAL INSTALLATION COST	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	4,007	1	4,087	0	0.000	0	0.000	2	0.000 8,094
TOTAL PROCUREMENT COST	0	0.000	0	0.000		0.000	0	0.000	0	0.000	0	0.000	1	22,107	1	22,500		0.000	-	0.000	2	44,607
METHOD OF IMPLEMENTATION:								VE LEAD			2 Month			ION LEAD	TIME:	,	12 Mon				_	,
CONTRACT DATES:			FY05		N/A		FY06		N/A		FY07		N/A		FY08		N/A					
DELIVERY DATES:			FY05		N/A		FY06		N/A		FY07		N/A		FY08		N/A					
DELIVERY DATES.			F105		IN/A		F100		IN/A		F107		IN/A		F100		IN/A					
			FY04					FY 05					FY 06						FY 07	<u>-</u>		
INSTALLATION SCHEDULE: PY	1	2	3	4	_	1	2	3	4	=	1	2	3	4	_		1	2	3	4		
INPUT																						
INPUT																						
OUTPUT																						
							_										_					
		_					F	Y 09					<u>FY 10</u> 3					Y 11				
INSTALL ATION SCHEDULE:	1	₂ FY	<u>08</u>	1		1		3	1		1	2	3	1		1	2	2	1		TC	TOTAL
INSTALLATION SCHEDULE:	1	2 <u>FY</u>	<u>08</u> 3	4	-	1	2	3	4	-	1_	2	3	4	-	1	2	3	4	_	TC	TOTAL
INSTALLATION SCHEDULE:	1	<u>FY</u> 2	<u>08</u> 3	4	_	1		3	1	-	1	2	3	<u>4</u> 1	_	1	2	3	44	_	TC	TOTAL 2
	1	<u>FY</u> 2	<u>08</u> 3	4	-	1		3		-	1	2	3		_	1	2	3	4	_	TC	
INPUT	11	<u>FY</u> 2	<u>08</u> 3	4	_	1		3		-		2	3		_	1	2	3	4	_	TC	2

MODIFICATION TITLE: Common Processor (Configuration Control Model)

FY 05

FY 06

COST CODE: VG006

SURTASS Development/Maintenance Facility

FY04

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Hardware is required to support ICP Upgrade of Land Based Test Site (LBTS) / Software Development and Maintenance facility to support a Configuration Control Model. System will be able to support all configurations of ship, shore, and J-AOS processing. Associated equipment installation is not required since hardware will be integrated at the LBTS and remain there to support ICP software development,

FY 07

FY08

FY09

FY10

FY11

maintenance, and testing.

PY

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: (\$ in millions)

	PY		<u>FYU4</u>		05	<u>FY 06</u>		Y 07	F Y U8		F Y U 9		FYI	10		11		C		<u>otai</u>
	Qty	\$	Qty \$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty \$		Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			0	0.000
PROCUREMENT:																			0	0.000
Kit Quantity																			0	0.000
Installation Kits																			0	0.000
Installation Kits Nonrecurring																			0	0.000
								0.050												
Equipment							1	2.850											1	2.850
Equipment Nonrecurring																			0	0.000
Engineering Change Orders																			0	0.000
Data																			0	0.000
Training Equipment																			0	0.000
Support Equipment																			0	0.000
Other																			0	0.000
Interim Contractor Support																			0	0.000
Installation of Hardware																			0	0.000
PRIOR YR EQUIP																			0	0.000
FY 05 EQUIP																			0	0.000
FY 06 EQUIP																			-	
																			0	0.000
FY 07 EQUIP							1*	0.000											1	0.000
FY 08 EQUIP																			0	0.000
FY 09 EQUIP																			0	0.000
FY 10 EQUIP																			0	0.000
FY 11 EQUIP																			0	0.000
FY TC EQUIP																			0	0.000
TOTAL INSTALLATION COST	0	0.000	0.000	0	0.000	0.000	0	0.000	0 0	0.000	0 0		0	0	0	0.000	0	0.000	1	0
TOTAL PROCUREMENT COST	0	0.000	0 0.000	0	0.000	0 0.000	1	3	0 0	0.000	0 0		0	0	0	0.000	0	0.000	1	2.850
METHOD OF IMPLEMENTATION:						STRATIVE LEAD	TIME:		1 Month		PRODUCTION LE				2 Months					
METHOD OF IMPLEMENTATION					, , ,	51101111 E EE/1D						.,			2					
CONTRACT DATES:			FY2007:	Dec-06	2	FY2008:	N/A		FY2009:		N/A	EV	′2010:		N/A					
CONTRACT DATES.			F12007.	Dec-00	,	F12006.	IN/A		F12009.		IN/A	гі	2010.		IN/A					
DELIVERY DATES:			FY2007:	E-1- 0-	7	FY2008:	N/A		FY2009:		N/A		′2010:		N/A					
DELIVERY DATES:			FY2007:	Feb-07		FY2008:	N/A		FY2009:		N/A	FY	2010:		IN/A					
			FY04			FY 05					FY 06						FY 07			
INSTALLATION SCHEDULE: PY	1	2	3 4	_	1	2 3	4	_	1	2	3 4				1_	2	3	4		
INPUT																	1			
OUTPUT																	1			
		<u>FY 0</u> 2)8			FY 09					FY 10 3 4				FY	11				
INSTALLATION SCHEDULE:	1	2	3 4		1	2 3	4		1	2	3 4			1	2	3	4		TC	TOTAL
				_				_										_'		
INPUT																				1
0.1771.17																				
OUTPUT																				1

Notes/Comments:

February 2006

TC

Total

^{*}Equipment installation funds are not required since hardware will be integrated at the LBTS and remain there to support ICP software development, maintenance, and testing.

MODIFICATION TITLE: Field Changes/Modifications

COST CODE: VG007

MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ship and Shore Facilities

DESCRIPTION/JUSTIFICATION: Field Changes/Modifications for correction of deficiencies identified by Fleet use, array support, communications equipment and replacement of aging/unsupportable equipment.

N/A

0.079

0

0.000

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FY04 FY 05 FY 06 FY 07 FY08 FY09 Total Qty Qty Qty Qty Qty Qty Qty RDT&E 0.000 0 PROCUREMENT: 0 0.000 Kit Quantity 0 0.000 Installation Kits 0 0.000 Installation Kits Nonrecurring 0 0.000 0.029 6 0.250 1.267 1.071 0.934 1.085 66 Equipment 3 11 3 10 10 11 1.118 12 1.085 6 839 Equipment Nonrecurring 0 0.000 Engineering Change Orders 0 0.000 Data 0 0.000 Training Equipment 0 0.000 0 Support Equipment 0.000 Other 0 0.000 Interim Contractor Support 0 0.000 Installation of Hardware 0 0.000 PRIOR YR EQUIP 0.050 3 0.050 FY 05 EQUIP 6 0.127 6 0.127 FY 06 EQUIP 0.268 0.211 11 0.479 10 FY 07 EQUIP 0.106 3 0.106 3 FY 08 EQUIP 0.257 10 10 0.257 FY 09 EQUIP 10 0.385 10 0.385 FY 10 EQUIP 0.385 11 0.385 11 FY 11 EQUIP 12 0.386 12 0.386 FY TC EQUIP 0.000 TOTAL INSTALLATION COST 0.050 0.000 0.127 0.268 0.317 10 0.257 0.385 0.385 12 0.386 0.000 66 2.175

10

10

1.191

11

11

1.503

12

1.470

PRODUCTION LEADTIME: 10 months

Various CONTRACT DATES: FY2004: Various FY 2005: Various FY2006: FY2007: Various DELIVERY DATES: FY2004: FY 2005: FY2006: FY2007: Various Various Various Various

0.377

FY 05 FY04 FY 06 FY 07 INSTALLATION SCHEDULE: PY 3 INPUT 3 6 10 OUTPUT 3 6 10

10

1.535

1.388

2 months

10

11

ADMINISTRATIVE LEADTIME:

FY 08 FY 09 FY 10 INSTALLATION SCHEDULE: TC TOTAL INPUT 10 10 11 12 0 66 OUTPUT 10 10 12 11 0 66

Notes/Comments

Quantity reflects various field changes

TOTAL PROCUREMENT COST

METHOD OF IMPLEMENTATION:

February 2006

0

0

0.000

9.014

1.471

MODIFICATION TITLE: Common Processor Ship Electronics February 2006

COST CODE: VG010

MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ships

DESCRIPTION/JUSTIFICATION: Common Processor Ship Electronics provides upgraded ship processing and display suite consisting of INTEL technology server configuration to accommodate improved and expanded twinline and active precossing data from

SURTASS Ships in support of MSS Active Improvements Program in a configuration (ICP) common across the MSS program office.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: (\$ in millions)	FINANCIAL	PLAN:	(\$ in	millions)
----------------------------------	-----------	-------	--------	-----------

FINANCIAL PLAN: (\$ in millions)					_						_						_		_	_	_	
	PY			FY04		Y 05		FY 06		07		Y08	<u>FY</u>			<u>Y10</u>		<u>Y11</u>		<u>C</u>	<u>Tc</u>	
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty 0	0.000
PROCUREMENT:																					0	0.000
Kit Quantity																					0	0.000
Installation Kits																					0	0.000
Installation Kits Nonrecurring																					0	0.000
Equipment	1	0.840			5	4.000															6	4.840
Equipment Nonrecurring																					0	0.000
Engineering Change Orders																					0	0.000
Data																					0	0.000
Training Equipment																					0	0.000
Support Equipment Other																					0	0.000 0.000
Interim Contractor Support																					0	0.000
Installation of Hardware																					0	0.000
PRIOR YR EQUIP	1	0.060																			0	0.060
FY 05 EQUIP		0.000					5	0.640													5	0.640
FY 06 EQUIP																					0	0.000
FY 07 EQUIP																					1	0.000
FY 08 EQUIP																					0	0.000
FY 09 EQUIP																					0	0.000
FY 10 EQUIP																					0	0.000
FY 11 EQUIP																					0	0.000
FY TC EQUIP TOTAL INSTALLATION COST		0.060		0.000	_	0.000	-	0.640		0.000	_	0.000	0	0.000	_	0.000		0.000		0.000	0	0.000
TOTAL INSTALLATION COST	1	0.900	0	0.000	5	4.000	5	0.640	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	6 6	5.540
METHOD OF IMPLEMENTATION:	<u> </u>	0.900	0	0.000				LEADTIME:		1 month	U		PRODUC			0.000					#3, #4 & #5	
me mos or min eemermon.						7151111110		. LETTO THINE									10 1110111	,				
CONTRACT DATES:		FY2004:	N/A					FY2005:	Feb-05			FY2006:	N/A			FY2007:	N/A					
DELIVERY DATES:		FY2004:	N/A					FY2005:	lan-06			FY2006:	N/A			FY2007:	N/A					
DELIVERY BATEO.		1 12004.	14//					1 12000.	our oo			1 12000	. 14//			1 12007.	14// (
INSTALLATION SCHEDULE: PY	1	2	FY04 3	4		1	2	FY 05 3	4		4	2	FY 06 3	4			4	2	FY 07 3	4		
INSTALLATION SCHEDULE. FI			3		-			3		-			3						3			
INPUT 1												1	2	2						1		
OUTPUT 1												1	2	2						1		
													-	-								
		_	Y 08					FY 09				_	Y 10				E\	<u>′ 11</u>			TC	TOTAL
INSTALLATION SCHEDULE:	1	2	3	4	_	1	2	3	4	_	1	2	3	4		1	2	3	4		10	IOTAL
INPUT									-			-					-					6

INPUT

OUTPUT

Notes/Comments

Exhibit P-3a, Individual Modification Program Unclassified Classification

CLASSIFICATION

BUDGET ITEM JUSTIFICATION								DATE	Februa	ry 2006
APPROPRIATION/BUDGET ACTIVIT OP,N - BA2 COMMUNICATIONS & EL		UIPMENT			P-1 ITEM NON BLI 2246 Taction		lobile) Systems	<u> </u>	SUBHEAD 52WH	
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	ТО СОМР	TOTAL	
QUANTITY										
COST (in millions)	\$5.1	\$5.2	\$5.2	\$5.4	\$17.7	\$22.4	\$22.8	Continuing	Continuing	

Tactical/Mobile (TacMobile) Systems (formerly Tactical Support Centers). The TacMobile program provides evolutionary systems and ancillary equipment upgrades to support the Maritime Sector Commanders (Ashore) with the capability to plan, direct and control the tactical operations of Joint and Naval Expeditionary Forces and other assigned units within their respective area of responsibility. These operations include littoral, open ocean, and over land all sensor (i.e. Electro Optical (EO), Infrared (IR), Inverse Synthetic-Aperture Radar (ISAR), etc.) surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue, and special operations.

The TacMobile program includes fixed-site Tactical Support Centers (TSCs) or equivalent and Mobile Operations Control Centers (MOCCs) or equivalent. TSCs provide Command, Control, Communications, Computers, & Intelligence (C4I) capability, air-ground, satellite and point-to-point communications systems; sensor analysis capabilities; avionics and weapons system interfaces and facilities equipment at fixed-site locations. MOCC is a scalable and mobile version of the TSC for contingency operations and for support of operations from airfields that do not have a TSC.

WH046. Analysis Interface Equipment. This cost code contains TSC sensor analysis capabilities, avionics and weapons system interfaces, computer upgrades and associated software for interfacing analysis and processing equipment to the supported weapons systems (aircraft). It also includes Facilities Equipment necessary to power and support the processing equipment and interfaces.

This Budget Request Procures: 1. TSC Upgrade Equipment; 2. Facilities Equipment; and 3. Installation of Equipment.

INSTALLATION/DELIVERY DATA:

12 TSCs: 10 operational sites (located at Brunswick, Maine, Jacksonville, Florida, Sigonella, Italy, Kaneohe Bay, Hawaii, Whidbey Island, Washington, Kadena, Japan, Misawa, Japan, Coronado (North Island), California, Bahrain and United States Southern Command), and at 1 training site (located at Fleet Combat Training Center (FCTC) Dam Neck, Virginia), and 1 laboratory site (located at Space & Naval Warfare Systems Command Systems Center (SSC) Charleston detachment Patuxent River, Maryland).

11 MOCCs: 10 operational sites (homeported at Brunswick, Maine, Jacksonville, Florida (2 sites), Sigonella, Italy (2 sites), Kaneohe Bay, Hawaii, Misawa, Japan, Willow Grove, Pennsylvania, Bahrain and Point Mugu, California), and 1 for C4l engineering and maintenance support (located at the In Service Engineering Activity (ISEA), SSC Charleston).

Note: Some TSC and MOCC locations have changed as a result of the Global War On Terrorism (GWOT). Further relocations are anticipated as primary Maritime Patrol and Reconnaissance Aircraft (MPRA) operating locations evolve in support of the GWOT and as a result of the introduction of the P-8A Multi-mission Maritime Aircraft (MMA), as the replacement aircraft for the P-3C, and the Broad Area Multiple Surveillance Unmanned Aerial Vehicle (BAMS UAV).

UNCLASSIFIED CLASSIFICATION

	COST ANALYSIS					DATE		Feb	ruary 20	006	
	PRIATION ACTIVITY A-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT				IENCLAT) Systems		SUBHE	E AD 52WH	
O1 ,1 1 L	A 2 GOMMONIO/MONO/MO ELEGITACINO EQGIT MENT		DLI ZZT	o ractical	//WODIIC (18	CIVIODIIC) Gysterne	<u>'</u>		02 VVII	
				FY 200			FY 200			FY 200	
COST CODE	ELEMENT OF COST	ID CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	ANALYSIS INTERFACE EQUIP* NON-FMP INSTALLATION	A A			4,846 220			4,968 232			4,507 731
	TOTAL CONTROL				5,066			5,200			5,238
	M 0446 UIN 06		<u> </u>	 	10.0 - 6.0	<u> </u>	L		<u> </u>	L	

DD FORM 2446, JUN 86

P-1 Shopping List No. 40-2 of 3

Exhibit P-5, Budget Item Justification Unclassified

Remarks:

^{*} Mobile Operations Control Center (MOCC) systems are procured under a "turn-key" structure; therefore, Installation funds are not shown separately.

UNCLASSIFIED
February 2006

MODIFICATION TITLE: Tactical/Mobile (TacMobile) Systems

COST CODE WH046
MODELS OF SYSTEMS AFFECTED: N/A

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

N: This cost code contains fixed-site TSC/MOCC sensor analysis capabilities, avionics and weapons system interfaces, computer upgrades

and associated software for interfacing analysis and processing equipment to the supported weapons systems (aircraft).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

		PY		<u>FY</u>	05	<u>FY</u>	′ 06	<u>F\</u>	<u> 7 07 </u>	<u>F</u> `	<u>′ 08</u>	<u>FY</u>	′ 09	<u>FY</u>	10	<u>F\</u>	<u>/ 11</u>	I	<u>C</u>	I	<u>otal</u>	_
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data		VAR	67.553	VAR	4.846	VAR	4.968	VAR	4.507	VAR	4.758	VAR	15.296	VAR	19.637	VAR	20.328	CONT	CONT	CONT	CONT	
Training Equipment Support Equipment Shore Pre-Installation Design									0.026		0.112		0.130		0.120		0.100	CONT	CONT		0.49	
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP		211 211	19.788 19.788	2	0.220	2	0.232	3	0.705	2	0.548	6	2.258	6	2.617	5	2.396	CONT	CONT	237 211 0 2	28.76 19.79 0.00 0.22	
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 10 EQUIP FY 101 EQUIP						2	0.232	3	0.705	2	0.548	6	2.258	6	2.617	5	2.396			2 3 2 6 6 5	0.23 0.71 0.55 2.26 2.62 2.40	
FY TC EQUIP																		CONT	CONT	CONT	CONT	
TOTAL INSTALLATION COST			19.788		0.220		0.232		0.731		0.660		2.388		2.737		2.496	CONT	CONT	CONT	29.25	1
TOTAL PROCUREMENT COST			87.341		5.066	TD 1 TU /F	5.200		5.238		5.418	BBBBII	17.684		22.374		22.824	CONT	CONT	CONT	29.25	j
METHOD OF IMPLEMENTATION:					ADMINIS	IRATIVE	LEAD TIN	/IE:	VAR			PRODUC	CTION LE	AD TIME:		VAR						
CONTRACT DATES:				FY 2004:		VAR			FY 2005:		VAR			FY 2006:		VAR			FY 2007:		VAR	
DELIVERY DATES:				FY 2004:		VAR			FY 2005:		VAR			FY 2006:		VAR			FY 2007:		VAR	
						06				<u>F</u>	<u>′ 07</u>				FY	08						
INSTALLATION SCHEDULE:	PY			1	2	3	4		1	2	3	4	=	1	2	3	4					
INPUT	213						2				1	2				2						
OUTPUT	213						2				1	2					2					
					-	. 00				_					-							
INSTALLATION SCHEDULE:				1	2	3	4		1	2	<u>/ 10</u> 3	4	_	1	2	<u>' 11</u> 3	4			тс		<u>TOTA</u>
INPUT					3	3				3	3				2	3				CONT		237
OUTPUT						3	3				3	3				2	3			CONT		237

Notes/Comments

^{*} P-3a quantities are "Fixed Shore Sites installed". Additionally, the Installation quantities only represent TSC units.

^{*} Install costs vary across fiscal years due to different equipment mix, site specific Field Change Bulletins (FCBs), and locations.

CLASSIFICATION: UNCLASSIFIED

			BUDGET	ITEM JUSTI P-40		SHEET				DATE: FEBRUA	RY 2006
APPROPRIATION/BUDG	GET ACTIVITY			P-1 ITEM NO	MENCLATURE						
Other Procurement	, Navy										
BA-2: Communicati	ion & Elect.	Equipn	nent				AN/SLQ-3	2(V) / 2312			
Program Element for Cod	de B Items:			Other Related	Program Elem	ents					
		020422	28N								
	FY 2004 and Prior	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Program
QUANTITY	0		0	0	0	0	0	0	0	0	0
COST (\$M)	28.9		19.9	24.7	31.0	32.1	31.7	35.5	34.6	contd	contd
Initial Spares (\$M)	0.4		0.9	0.5	0.7	0.9	1.4	1.4	1.6	contd	7.8

PROGRAM DESCRIPTION/JUSTIFICATION:

The AN/SLQ-32(V) provides a family of modular shipborne electronic warfare equipment which is installed on all surface combatants, CV/CVN, amphibious ships and auxiliaries in the surface Navy. The system consists of five configurations and provides early detection, analysis, threat warning and protection from anti-ship missiles.

The Surface Electronic Warfare (EW) Improvement Program (SEWIP) will develop a modern, highly capable family of EW systems by block upgrade of the current AN/SLQ-32 system that is robust in detecting and countering near-term and future threats and will extend the service life of the AN/SLQ 32(V) systems presently installed on approximately 149 U.S. Navy ships.

Funding procures Engineering Change Proposals (ECPs)/Field Change Kits to ensure future tactical suitability and viability of the AN/SLQ-32(V) and to address obsolescence and diminishing material source issues. Field Change Kits consist of, but are not limited to: Electromagnetic Interference (EMI) Fixes, Cost, Reliability, Obsolescence, and Diminishing Manufacturing Sources (DMS) fixes.

Funding procures upgrades to the current AN/SLQ-32(V) system:

Electronic Surveillance Enhancement (ESE) kits for the AN/SLQ-32(V). ESE replaces the Digital Processing Unit and Digital Tracking Unit with a modern computer structure. This enhanced functionality increases Anti-Ship Missile Defense (ASMD) capabilities by increasing the probability of correct identification of threats.

Improved Control and Display (ICAD) replaces the current Display Control Console (DCC) with a Navy standard UYQ-70 console and improved windows based color displays. ICAD is a low-risk improvement that provides the EW Operator with the tools necessary to improve tactical performance, situational awareness and battle readiness.

Small Ship Electronic Support Measures Systems (SSESM). These are required to provide Specific Emitter Identification (SEI) capability to various ships/ship classes.

High Gain High Sensitivity (HGHS) capability to improve situational awareness and threat warning.

TC5IN: Shipboard installation of ECP/Field Changes (including ESE), SSESM, ICAD, and HGHS. TC6IN: Installation of ECP/Field Changes (including ESE), SSESM, ICAD, and HGHS at shore sites.

CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM COST ANA P-5	LYSIS	Weapon S	ystem							DATE:	ARY 2006
APPRO	PRIATION/BUDGET ACTIVITY		ID Code	P-1 ITEM	NOMENCL	ATURE/SUE	BHEAD				SUBHEAD	
	PROCUREMENT, NAVY DMMUNCATIONS AND ELECTRONICS EQ						∧N/SI ∩ 3	32(V) 2312	,			A2TC
DA-2. CC	DMINIONCATIONS AND ELECTRONICS EQ	Т	OTAL COST IN THOU	JSANDS O	F DOLLAR	S	AIV/SLQ-3	2(V) 2312				AZIC
0007	ELEMENT OF COST		EV 0004	1	EV 2005		1	EV 0000			EV 0007	
COST	ELEMENT OF COST	ID Code	FY 2004 and Prior		FY 2005			FY 2006			FY 2007	
-			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
TC055	Equipment ECP/FIELD CHANGE KITS	А	5,850			2,681			3,500			4,887
TC056	Small Ship ESM Systems (SSESM) Production Support SSESM	В	4,533 262	10	369.00	3,690 1,011		339.25	4,071 841			
	SEI/HGHS Production Support HGHS	В										
TC057 TC056	ICAD/Q-70 Production Support ICAD LOGISTICS SUPPORT ICAD	В	2,600 39 3,000	7	260.00	1,820 1,153	10	280.72	2,807 579			
TC058	ESE Production Support ESE	A	3,862 5	32	175.21	5,607 919	37	192.83	7,135 880			
TC055	Surface EW Improvements SSESM ICAD ESE SEI/HGHS	В								66 (3) (25) (37)		16,814
	Production Support									(1)		3,378
TC5IN	FMP INSTALLATIONS		8,751			2,931			4,782			5,851
TC6IN	NON-FMP INSTALLATIONS		62			88			126			25
	RM 2446 .ILIN 86		28,964 P-1 Line Ite			19,900 PAGE NO	59		24,721			30,955

DD FORM 2446, JUN 86 P-1 Line Item Number PAGE NO CLASSIFICATION:

UNCLASSIFIED CLASSIFICATION:

	11 HI210	ORY AND PLANI	NING EXHIB	IT (P-5A)	Weapon System		A. DATE		
								FEBRUA	RY 2006
		ACTIVITY						SUBHEAD	
	•			AN/SLQ-32(V)	/ 2312			A2	TC
<u>ATION</u>	IS AND	<u>ELECTRONICS </u>	<u>EQ</u>		•	_	T = - = = - = -		
QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST	AVAILABLE	IF NO WHEN AVAILABLE
10	369	NAVSEA	12/04	CPFF	GD AIS	7/05	2/06	YES	
7	260	NAVSEA	N/A	FFP	LM -Eagan	9/05	6/06	YES	
32	175	NSWC Crane	4/02	FFP	Northrop Grumman	3/05	5/05	YES	
12	339	NAVSEA	12/04	CPFF	GD AIS	2/06	10/06	YES	
10	281	NAVSEA	N/A	FFP	LM -Eagan	2/06	8/06	YES	
37	193	NSWC Crane	10/05	FFP	Northrop Grumman	2/06	5/06	YES	
3	348	NAVSEA	12/04	CPFF	GD AIS	11/06	4/07	YES	
25	287	NAVSEA	N/A	FFP	LM -Eagan	11/06	6/07	YES	
37	172	NSWC Crane	10/05	FFP	Northrop Grumman	11/06	2/07	YES	
1	1848	TBD	TBD	TBD	TBD				
	0N/BUMENTATION QTY 10 7 32 12 10 37 3 25 37	ON/BUDGET / MENT, NAVY ATIONS AND QTY UNIT COST (000) 10 369 7 260 32 175 12 339 10 281 37 193 3 348 25 287 37 172	ON/BUDGET ACTIVITY MENT, NAVY ATIONS AND ELECTRONICS I QTY UNIT COST (000) LOCATION OF PCO 10 369 NAVSEA 7 260 NAVSEA 32 175 NSWC Crane 12 339 NAVSEA 10 281 NAVSEA 37 193 NSWC Crane 3 348 NAVSEA 25 287 NAVSEA 37 172 NSWC Crane	ON/BUDGET ACTIVITY MENT, NAVY ATIONS AND ELECTRONICS EQ QTY UNIT COST (000) LOCATION OF PCO RFP ISSUE DATE 10 369 NAVSEA 12/04 7 260 NAVSEA N/A 32 175 NSWC Crane 4/02 12 339 NAVSEA 12/04 10 281 NAVSEA N/A 37 193 NSWC Crane 10/05 3 348 NAVSEA 12/04 25 287 NAVSEA N/A 37 172 NSWC Crane 10/05	ON/BUDGET ACTIVITY MENT, NAVY C. P-1 ITEM IN AN/SLQ-32(V) ATIONS AND ELECTRONICS EQ CONTRACT METHOD & TYPE QTY UNIT COST (000) LOCATION OF PCO RFP ISSUE DATE CONTRACT METHOD & TYPE 10 369 NAVSEA 12/04 CPFF 7 260 NAVSEA N/A FFP 32 175 NSWC Crane 4/02 FFP 12 339 NAVSEA 12/04 CPFF 10 281 NAVSEA N/A FFP 37 193 NSWC Crane 10/05 FFP 3 348 NAVSEA 12/04 CPFF 25 287 NAVSEA N/A FFP 37 172 NSWC Crane 10/05 FFP	C. P-1 ITEM NOMENCLATURE	DN/BUDGET ACTIVITY MENT, NAVY ATIONS AND ELECTRONICS EQ	C. P-1 ITEM NOMENCLATURE	C. P-1 ITEM NOMENCLATURE

D. REMARKS

PAGE NO CLASSIFICATION: P-1 SHOPPING LIST DD Form 2446-1, JUL 87 41

РЗА		INDIVIE	DUAL	MODIFIC	CATIO	ON														FEBRUARY 20 BLI 2312
MODELS OF SYSTEM AFFECTED:	AN/SLQ	-32(V)	TYP	E MODIF	FICAT	ION:	ECPs	/SARs		<u>-</u>			MOD	IFICATIO	N TITL	E:	Various	i		52.20.2
DESCRIPTION/JUSTIFICATION:																				
Funding is for Surface Electronic Warfare Im	provemer	nts to AN	I/SLQ	-32(V) .	Procu	irement a	nd inst	tallation of	impro	ovements	s is ned	cessary to	ensur	e future m	ission	tactical su	itability ar	nd viability fo	or SLQ-32(\	/).
DEVELOPMENT STATUS/MAJOR DEVELO)PMFNT N	MII ESTO	ONES		BI O	ICK 1A· F	SE(O	A:3QFY04	1) ICA	D (DT/O	4·2QF	Y05)								
	FY 2004	4					-0-(0		.,	.2 (2 .70)		. 00/	_							
I	and Pric	<u>or</u> \$	<u>F</u>	<u>Y 2005</u> ' \$	<u>F`</u> QTY	<u>Y 2006</u> ′\$	<u>F\</u> QTY	<u>/ 2007</u> \$	<u>F</u> QTY	Y 2008 \$	<u>F</u> QTY	<u>Y 2009</u> \$	<u>E</u> QTY	Y 2010 \$	<u>F</u> QTY	Y 2011 \$	QTY	TC \$	QTY	TOTAL
FINANCIAL PLAN (IN MILLIONS)	QIY	<u></u>	QII		QIT	<u>Ψ</u>	QII	<u></u>	QII	<u></u>	QII	Ψ	T	Ф	UIT	<u></u>	QII	T D	QIT	\$ T
RDT&E	0	256.6	0	33.8	0	29.1	0	10.5	0	17.6	0	19.2	0	19.6		18.0		Cont.		404.4
<u>PROCUREMENT</u>																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT - SSESM	13	4.5	10	3.7	12	4.1	3	1.0											38	13.3
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGES		5.9		2.7		3.5		4.9		3.4		1.0		0.0		0.0				21.3
UNIT COST DATA FOR EQUIPMENT																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0

P-1 SHOPPING LIST

41

OTHER - ICAD

OTHER - ESE

Non-FMP

OTHER - SEI/HGHS

LOGISTICS SUPPORT

PRODUCTION ENGINEERING

INSTALL COST (does not include non-FMP)

PROCUREMENT COST

TOTAL PROGRAM

10

20

43

2.6

3.9

3.0

0.3

0.1

20.2

8.8

29.0

7

32

49

1.8

5.6

3.1

0.1

17.0

2.9

19.9

10

37

59

2.8

7.1

2.3

0.1

19.9

4.8

24.7

25

37

1

66

7.2

6.8

1.8

3.4

0.0

25.1

5.9

31.0

21

18

7

46

6.1

3.1

12.0

2.1

0.1

26.7

5.3

8

13

21

2.4

21.5

3.1

0.1

28.0

3.7

31.7

5

16

21

1.5

25.2

7.0

0.2

33.9

1.6

35.5

15 22.9

15

8.0

31.0

3.5

34.6

32.1 PAGE NO

CLASSIFICATION: UNCLASSIFIED

342

86

144

74

24.5

26.4

83.4

0.0

29.2

201.9

36.5

238.4

Cont

Cont

Cont

Cont

22

22

CLASSIFICATION: U	INCLASSII	FIED																						
P3A (Continued)								INDIV	IDUAL N	MODIFICAT	ION (Co	ntinued)												FEBRUARY 2006 BLI 2312
MODELS OF SYSTEM	MS AFFEC	TED:	A	N/SLC	Q-32A(V)2, A	(V)3				MODIFI	ICATION 1	TTLE:		Small	l Ship Electr	onic Sup	port Measu	res Syst	ems (SSES	SM)			
INSTALLATION INFO																								
METHOD OF IMPLEN ADMINISTRATIVE LE		N:		Month	LT/AIT h					PRO	DUCTIO	N LEADTI	ME:		8 Mor	nths								
CONTRACT DATES:			2005:	-			Jul-05			FY 2006:		Feb-06		FY 2		Nov-		-						
DELIVERY DATE:		FY 2	2005:	-		F	eb-06			FY 2006:		Oct-06		FY 2	007:	Apr-	07	<u>-</u>						
_				1								_	(\$ in N		1				1					
Cost:		Otre	\$	FY 2	2004 ar			Y 2005 \$		Y 2006 \$		2007		/ 2008 \$		FY 2009 \$		Y 2010 \$		Y 2011 \$		Complete \$	Otre	Total \$
PRIOR YEARS		Qty	Þ		\$	•	Qty	\$	Qty	Ф	Qty	Ф	Qty	Ф	Qty	Þ	Qty	Ъ	Qty	Ф	Qty	\$	Qty	<u> </u>
																							0	0.00
FY 2004 AND PRIOR	R			6		0.71	5	0.65	. 2	0.22													13	1.58
FY 2005 EQUIPMEN	NT								10	1.12													10	1.12
FY 2006 EQUIPMEN	NT.										12	1.05											12	1.05
FY 2007 EQUIPMEN	NT .												3	0.25									3	0.25
FY 2008 EQUIPMEN	NT																						0	0.00
FY 2009 EQUIPMEN	١T																						0	0.00
FY 2010 EQUIPMEN	١T																						0	0.00
FY 2011 EQUIPMEN	١T																						0	0.00
TO COMPLETE **																						Cont	38	4.00
INSTALLATION SC	CHEDULE:	r. I	SHIP AV	/AILAE	BILITIE	S			1 (1							
	FY2004 AND PRIOR					1	<u>FY 20</u> 2	005 3 4		FY 2006 2 3	4	1 2	<u>′ 2007</u> 3	4 1	<u>FY 2</u> 2			FY 2009 2 3	4	FY 2			FY 2011 2 3	TC TOTAL
IN	13						<u>-</u>	5 5	5	4 4	4		3	Ť		<u> </u>			1	<u>. </u>	<u>~</u>		<u> </u>	38
OUT								1 8	2	6 4	2	1 5	3	2 1	2	1								38

CLASSIFICATION: UNCLASS	IFIED																						
P3A (Continued)						INDIV	IDUAL	MODIFICA	TION (Continued)													JARY 2006
																						BLI 23	12
MODELS OF SYSTEMS AFFE	TED.	,	אויפו כ	Q-32A(V)1,A(V	Λo				MODIE	FICATION TIT	TI E.		Impro	oved Control	and Dien	lav (ICAD)							
INIODELS OF STSTEINS AFFEC	JIED.		AIN/OLG	2-32A(V)1,A(V)2				MODIF	TOATION III	LE.		impic	oved Control	anu Disp	iay (ICAD)							
INSTALLATION INFORMATION	N:																						
METHOD OF IMPLEMENTATION	ON:		SHIPAL	_T/AIT																			
ADMINISTRATIVE LEADTIME:			1	Months		_		PRO	DUCTION	ON LEADTIM	E:		6 Mor	nths									
CONTRACT DATES:		2005:		Sep-05		=		FY 2006:		Feb-06		FY 20		Nov-0									
DELIVERY DATE:	FY	2005:		Jun-06	i	_		FY 2006:	/	Aug-06		FY 20	007:	Jun-0	7								
											(\$ in	Millions)											
Cost:			FY 20	004 and Prior		FY 2005	l F	Y 2006	F	Y 2007		Y 2008		FY 2009	F)	Y 2010	l F	Y 2011	Т	o Complete	-	Total	
	Qty	\$	Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS	4.7	Ť		· ·		Ť		Ť	,	Ť		Ť		*		<u> </u>		<u> </u>				· ·	
																					0	0.00	
51/ 000 / 11/5 55/05																							
FY 2004 AND PRIOR							4	1.37													4	1.37	
FY 2005 EQUIPMENT							3	1.03	3	0.58											6	1.60	
1 1 2003 EQUIF WENT	1						3	1.03	3	0.30											0	1.00	
FY 2006 EQUIPMENT									10	1.92											10	1.92	
FY 2007 EQUIPMENT									3	0.58	20	3.2									23	3.77	
FY 2008 EQUIPMENT											3	0.48	16	2.35							19	2.35	
1 1 2000 EQUIF WENT	1											0.40	10	2.33							13	2.33	
FY 2009 EQUIPMENT																	6	1.44			6	1.44	
FY 2010 EQUIPMENT																	3	0.72			3	0.72	
FY 2011 EQUIPMENT																					0	0.00	
1 1 2011 EQUIPMENT	1																				0	0.00	
TO COMPLETE **																				Cont	71	13.17	
				•						•				•						•		<u> </u>	
		NOTE:	QUAI	NTITIES DIFF	ER FR	ROM P-5 BE	CAUSE	E OF INST	ALLATI	IONS AT SHO	ORE SIT	ES (15).											
INSTALLATION SCHEDULE	-	SHIP A	AVAILA	BILITIES			1		_														
FY2004					FY 20	<u>105</u>		FY 2006		FY	2007		FY 2	2008		FY 2009		FY 20	010	<u>E</u>	Y 2011	TC	TOTAL
AND PRIOF	₹			1	2	3 4	1	2 3	4	1 2	3	4 1	2	3 4	1	2 3	4	1 2	3	4 1 2	3	4	
IN			_	5		5	5		5		5	5 6	7	3 4 5 5		4 3	3		3				71
"'						3	"	3	١		3	ا ا	,	5 5		- 3	Ĭ		J				. '
OUT	⅃L							1 1	4	1 4	5	7 2	5	7 9	4	2 6	2	1	1	3 3	3		71
1						·								_							·		
								D_1 C	SHODD	ING LIST		DAGE								CLA	COLEICATI	ON: HNCLASS	EIED

CLASSIFICATION: UNCLASS	IFIED																						
P3A (Continued)						INDIV	IDUAL	MODIFICA	ATION (Continue	d)											FEBRUA BLI 2312	
MODELS OF SYSTEMS AFFE	CTED.	ΔN	1/SI O :	32A(V)2, A(1//2				MODI	FICATION	I TITI E:		⊔iah (Sain High Se	noitivity								
INIODELS OF STSTEINS AFFE	CIED.	AN	/SLQ-	32A(V)2, A(V)S			 -	MODI	FICATION	I IIILE.		nign	sain nign se	risilivity								
INSTALLATION INFORMATION METHOD OF IMPLEMENTATION		СП	IIPALT.	/AIT																			
ADMINISTRATIVE LEADTIME:			Nonths					PRO	DUCTION	ON LEAD	TIME:		TBD										
CONTRACT DATES:	FY	2005:	_					FY 2006			_		2007:	TBD				•					
DELIVERY DATE:	FY	2005:						FY 2006			_	FY 2	2007:	TBD									
Cost:	1		FY 20	004 and Prio	r	FY 2005	T F	Y 2006	T F	Y 2007		Millions) ' 2008	l F	Y 2009	l F	Y 2010	T F	Y 2011	Т	Complete	1 -	Total	
	Qty	\$	Qty	\$	Qty		Qty	\$	Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS													-										
																					0	0.00	
FY 2004 AND PRIOR																					0	0.00	
TT 2004 AND TRIOR																						0.00	
FY 2005 EQUIPMENT																					0	0.00	
FY 2006 EQUIPMENT																					0	0.00	
FY 2007 EQUIPMENT																					0	0.07	
FY 2008 EQUIPMENT													6	0.57							6	0.57	
FY 2009 EQUIPMENT															12	0.97					12	0.97	
FY 2010 EQUIPMENT																	13	1.08	2	Cont	15	1.08	
FY 2011 EQUIPMENT																			14	Cont	14	0.00	
TO COMPLETE **																			22	Cont	22	0.00	
		NOTE:	QUA	NTITIES DI	FFER I	FROM P-5 E	BECAUS	SE OF INS	TALLA	TIONS AT	SHORE	SITES (4).											
INSTALLATION SCHEDULE	<u>:</u> ,	SHIP A	VAILA	BILITIES																			
FY2004					FY 20			FY 2006		_	Y 2007		FY 2		_	FY 2009		<u>FY 2</u>			Y 2011	TC	TOTA
AND PRIOR	R			1	2	3 4	1	2 3	4	1 2	3	4 1	2	3 4	1 -	3 3	3	1 2 3 3	<u>3</u> 3	4 1 2 3 3 3		3 35	69
OUT																3	3	3 3	3	3 3 3		4 38	69

P-1 SHOPPING LIST

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ITEM NO. 41

CLASSIFICATION: UNCLASSIFIED

Exhibit P-40, Budget Ite	em Justif	ication					Date February 200	6				
Appropriation (Treasur Other Procurement, Na	-		/Item Contro	l Number			P-1 Line Item Information					
Program Element for C	ode B Ite	ems:				ner Related Progr						
	1	, ,		•	020	04575N Informat	on Warfare	T	1	•	T	
	ID Code	Prior Years	FY 2004	FY 2005	FY 20	006 FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total
Proc Qty												
Gross Cost	A	32.628	4.154	4.007	3.73	5.032	7.166	4.219	4.310	4.411	Cont.	Cont.
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (=P-1)												
Initial Spares	A	1.625	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	1.625
Total Proc Cost	A	34.253	4.154	4.007	3.73	5.032	7.166	4.219	4.310	4.411	Cont.	Cont.
Flyaway U/C												
Wpn Sys Proc U/C											-	

Description:

The Naval Information Warfare Activity (NIWA) serves as the Program Management Office for the Offensive Information Warfare (IW) program. As such, NIWA is tasked as the Navy's principal technical agent to research, assess, develop, and procure IW capabilities. The key focus is to provide tactical commanders with, state-of-the-art Electronic Attack (EA) hardware and software, and Computer Network Operations (CNO) production capabilities and IW Mission Planning Analysis and Command and Control Targeting System (IMPACTS) tool. (Some details of CNO are held at a higher classification.)

P-1 Shopping List - Item No. 42

Exhibit P-40, Budget Item Justification

Exhibit P-40a, Budget It	em Justi	fication for	Aggregated It	ems			Date February 20	006				
Appropriation/Budget A	Activity (OPN/2/2340	000/234006				Informatio	n Warfare Sy	stems			
	ID	Prior									То	
Procurement Items	Code	Years	FY 2004	FY 2005	FY 2006	FY 2007	FY2008	FY 2009	FY 2010	FY 2011	Comp	Total
Production Support	A	11.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.450
IW/CW Equipment	A	0.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.900
EA Equipment	A	9.710	2.534	2.257	1.889	1.726	1.842	1.858	1.942	1.977	Cont.	Cont.
EA Equipment Spares	A	1.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.625
EA Installation	A	0.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.300
Perception	A	2.861	0.870	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.731
Management												
IMPACTS Support	A	1.425	0.250	0.972	0.735	0.700	0.750	0.750	0.664	0.677	Cont.	Cont.
SSA Support	A	0.700	0.300	0.250	0.300	0.305	0.338	0.305	0.344	0.355	Cont.	Cont.
Fleet HPC HW	A	0.971	0.200	0.000	0.300	0.250	0.250	0.250	0.250	0.250	Cont.	Cont.
Contractor HW	A	1.598	0.000	0.318	0.300	0.300	0.350	0.300	0.356	0.363	Cont.	Cont.
IW Spt Equip.	A	0.582	0.000	0.000	0.000	0.350	0.346	0.347	0.341	0.372	Cont.	Cont.
Computer Network Operations	A	2.131	0.000	0.210	0.212	2.630	3.103	.222	.226	.230	Cont.	Cont
Total Quantity		Var	Var	Var	Var	Var	Var	Var	Var	Var		
Total Cost	Α	34.253	4.154	4.007	3.736	5.032	7.166	4.219	4.310	4.411	Cont.	Cont.

P-1 Shopping List - Item No. 42

Exhibit P-40a, Budget Item Justification for Aggregated Items

Exhibit P-18 Initial and Replenishment Spare and Repair Parts Justification					Date: February 2006						
Appropriation (Treasury) OPN/2/234000/234006						Information Warfare Systems					
	Prior									TO	
End Item P-1 Line Item	Years	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Comp	Total
INITIAL											
Electronic Attack	1.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.625
Equipment Spares											
TOTAL INITIAL	1.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.625
REPLENISHMENT											
N/A											
TOTAL REPLENISHMENT											

Remarks:

Funded Initial Spares

P-1 Shopping List Item No. 42

Exhibit P-18, Initial and Replenishment Spares and Repair Parts Justification

CLASSIFICATION

BUDGET	DATE: February 2006							
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				P-1 ITEM NOMENCLA SHIPBOARD IW EXPLO		SUBHEAD 521U		
	FY 2005	FY 2006	FY2007	FY 2008	FY 2009	FY 2010	FY 2011	Total
QUANTITY	\$68.5	\$59.0	\$70.8	\$67.3	\$91.5	\$104.0	\$87.9	\$549.0
COST (in millions)								

PROGRAM COVERAGE:

JUSTIFICATION OF BUDGET REQUIREMENTS:

- (U) This line procures the following:
- (U) The Ships Signal Exploitation Equipment (SSEE) program is a spiral acquisition, commercial off-the-shelf/non-developmental item (COTS/NDI) program designed as the building block to improve the tactical cryptologic and Information Warfare (C2W/IW) exploitation capability across Navy surface combatant platforms. SSEE provides the afloat cryptologist with threat identification and analysis of Communications Intelligence (COMINT) as well as queuing of radio direction finding assets. Equipment Includes Receivers, Radio Frequency (RF) Management Systems, Recorders, Audio Distribution Systems, Computers, Antennas and Ancillary Hardware. The system is upgraded incrementally, as improvements are developed. SSEE Increment E shall employ the Maritime Cryptologic Strategy for the 21st century (MCS-21) concept of a single core architecture that is easily modernized and scaled in capability. The system design permits the rapid insertion of new and emerging pre-planned product improvements (P3I) to address the evolving threat. The system will utilize generic processor technology to counteract obsolescence issues with Digital Signal Processing (DSP) technologies and provide software receivers for ease of modification to deal with known and projected exotic threat signals of interest. Automated signal acquisition and integrated Radio Direction Finding (RDF) will be incorporated into the Increment E system.
- (U) The Transportable Radio Direction Finding (T-RDF) and associated deck and/or mast antenna is a complete communication band shipboard Direction Finding system for bearing computation for surface combatants and is designed to operate in the harsh shipboard environment.
- (U) Engineering Change Proposal (ECP)/Obsolescence integration procures COTS/NDI equipment to replace obsolete and unsupportable equipment for the SSEE, Cooperative Outboard Logistics Upgrade (COBLU), Battle Group Passive Horizon Extension System-Shipboard Terminal (BGPHES-ST) and COMBAT Direction Finding (DF)/Automated Digital Acquisition Subsystem (ADAS), and Communication Data Link System (CDLS) programs. These changes allow for a common logistic support baseline for these programs and provides the hardware to support the Defense Information Infrastructure Common Operating Environment/Global Command and Control System-Maritime (DII COE/GCCS-M) software upgrades.
- (U) Navy Electronic Support Measure (ESM). (Formerly Special Modulation Detection Assembly (SMDA). This program will procure Navy Electronic Support measure collection systems vice Special Modulation Detection Assembly Cards. Systems are COTS hardware used for NAVY Electronic Support Measures (ESM) to provide a digitized intermediate frequency that is further processed to obtain Specific Emitter Identification (SEI) signature on certain types of radiated electronic signals. The SEI signature is produced by standardized algorithms within the host processor, which are jointly developed and supported at the national level by the National Security Agency (NSA) SEI Program Office. SEI systems consist of a COTS tuner, COTS wideband digitizer, a COTS digital signal processing (DSP) board, and host personal computer (PC) computer. The digitizer, DSP board, and PC are Versa Module Europa (VME) or Peripheral Component Interconnect (PCI) compliant hardware and mirror equipment being produced in national systems. The SEI systems supported by this line item are intended for deployment on both coasts, for use as Navy ESM collection systems and will fill a critical need for the capability.

UNCLASSIFIED

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET		DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	SHIPBOARD IW EXPLOIT SYSTEMS 2360	521U	

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: (continued)

- (U) The Communication Data Link System (CDLS) (formerly called Common Data Link Navy (CDL-N) and Common High Bandwidth Data Link-Shipboard Terminal (CHBDL-ST)). The CDLS system provides network interface capability, wideband encryption, and command link upgrades to the CHBDL-ST baseline system. CDLS provides a wideband data link between Navy/Joint airborne sensor systems and the shipboard processors of national and tactical reconnaissance programs. It is designed to communicate with the Signals Intelligence Mission and the Distributed Common Ground Station Navy (DCGS-N). CDLS benefits the fleet by providing horizon extension for line-of-sight sensor systems for use in time critical strike missions and is interoperable with the Fighter/Attach (F/A)-18 Shared Reconnaissance Pod (SHARP), Tactical Common Data Link (TCDL) Equipped P-3C and Electronics (E)P-3E Navy Aircraft, USAF Dual Data Link II equipped Special Aircraft, and Global Hawk High Altitude Endurance Unmanned Aerial Vehicle (HAE UAV). The CDLS program has provided additional capabilities by backfitting with the following kits: The Network Interface Unit (NIU) Kit (previously known as Dual Simultaneous Mission/Asynchronous Transfer Mode (DSM/ATM kits) provides a second Link Controller Rack with network interface capability, Sun workstation, wideband encryption, and command link upgrades to the CHBDL-ST baseline system. The Video Interface Group (VIG) Kit provides an additional workstation that provides streaming video display, record, and playback capability to support TCDL Equipped Navy Aircraft.
- (U) IW Training Equipment provides operator, unit or multi-unit level training on Tactical Cryptologic Systems (TCS). This training enhances initial skills, provides refresher training and increases proficiency of the operator on the TCS through the generation and replay of operational scenarios by software simulation versus hardware stimulation. Additionally this line supports the procurement of the Cryptologic On-Line Trainer (COLT) hardware for Shipboard IW team training.
- (U) Automatic Identification System (AIS) AIS is an International Maritime VHF Communication system that allows any ship to exchange information (machine to machine) on Navigation (Position, Course, Speed, etc), Ship Info (Ship Name, Call Sign, Length/Beam), Cargo Info (Draft, Type, Destination, Route, Estimated Time of Arrival (ETA), and Messaging (Safety, Text). This technology will improve capability in three diverse areas: (a) Situational Awareness/Common Operational Picture (COP) (b) Navigation/Safety of Ship and (c) Other intelligence gathering/correlation. Phase I OPN will procure off-the-shelf Commercial AIS gear and install them as "stand alone" systems on Navy warships. This will provide the Fleet with an initial operating capability. Phase 2 will provide an integrated AIS capability. Equipment will provide AIS capability on U.S. surface warships, including interfaces with ship's GCCS-M, Navigation, Intelligence, Surveillance and Reconnaissance (ISR) and Combat Systems as defined by Fleet requirements and Concept of Operations. (CONOPS). Funds will procure off-the-shelf Commercial AIS gear, in the form of omni-directional Very High Frequency (VHF), Global Positioning System (GPS) antennas, AIS transponder, AIS display and associated cables.
- (U) Tapered Slot Antenna System A Tapered Slot Antenna has been developed to collect modern hostile threat communications signals. In accordance with Department of Defense (DoD) Transformation objectives, an upgraded Tapered Slot Antenna has been developed with National Security Agency (NSA) Tactical Signal Intelligence (SIGINT) Technology (TST) funding. Accelerated procurement of Tapered Slot Antenna as a Pre-Planned process modern threat communication signals to provide Indications and Warning (I&W), more accurate cuing of sensors, improved signal exploitation and more timely support for Time Critical Strike operations. The Tapered Slot Antenna incorporates the latest advances in digital technology and will operate as the first truly multi-function antenna suitable for simultaneous Direction Finding (DF), signal acquisition and Information Operations (IO).
- (U) Tactical Communications Intelligence/Electronic Intelligence (COMINT/ELINT) Integration Tactical COMINT/ELINT is a Pre-Planned Product Improvement (P3I) upgrade. A recent P3I upgrade has been developed to collect and process (ELINT), such as from surface ship radars, simultaneously with COMINT as part of the SSEE Increment E system. This significant system improvement will provide, for the first time in the Navy's history, an integrated COMINT and ELINT collection and processing capability simultaneously for tactical cryptologic systems onboard surface ships which will significantly improve the identification and resolution of ambiguities of multiple hostile and/or threat SIGINT emitters.

COST ANALYSIS DATE: February 2006 APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE **SUBHEAD** OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT SHIPBOARD IW EXPLOIT SYSTEMS 2360 521U FY2005 FY2006 FY2007 COST ID UNIT TOTAL UNIT **TOTAL** UNIT TOTAL CODE **ELEMENT OF COST** CODE QTY COST COST QTY COST COST QTY COST COST 1U010 T-RDF ANTENNAS Α 2 414.0 828 1U013 ECP/OBSOLESCENCE Α VAR VAR 9.106 VAR VAR 541 VAR VAR 1.276 1U017 SSEE INCREMENT E Α 8 3,412.5 27,300 7 3,600.0 25,200 4,300.0 38,700 1U020 NAVY ELECTRONIC SUPPORT MEASURES (Formerly SMDA) Α 3 169.0 507 4 172.5 690 1U027 CDLS Α 3 2,948.0 8,844 2 2,481.0 4,962 1 3,200.0 3,200 1U029 IW TRAINING EQUIPMENT Α VAR VAR 355 VAR VAR 362 VAR VAR 739 В VAR VAR 1U030 **AUTOMATIC IDENTIFICATION SYSTEM (AIS)** 481 1U040 TAPERED SLOT ANTENNA SYSTEM Α VAR VAR 1.700 VAR 1U050 TACTICAL COMINT/ELINT INTEGRATION VAR 3,400 Α 1U555 PRODUCTION SUPPORT 3,372 3,346 4,394 INSTALLATION 18,142 18,790 21,992 1U777 INSTALL-FMP 14,442 16.205 18.048 1U777 DSA 2,023 1,810 3,244 1U776 INSTALLATION-NON FMP 1,677 775 700 **TOTAL** 68,454 58,991 70,782 Cost Code: 1U013 - Unit cost and quantity varies because the equipment being procured is COTS/NDI and supports all the programs within the Shipboard IW Exploit Budget. Cost Code: 1U017 - Unit price cost (UPC) varies due to different configurations and economy of scale.

Cost Code: 1U020 - Updated Navy Electronic Measures Collection Systems will be procured vice legacy Special Modulation Detection Assembly Cards.

NESM allows an all platform capability vice the limited P-3/submarine capability of legacy cards

Cost Code: 1U027 FY05 - Systems will begin backfitting fielded CHBDL systems.

Cost Code: 1U029 - IW Training Equipment, quantity varies because of different configurations of training systems

that support all of the programs within the Shipboard IW Exploit Budget.

Cost Code: 1U030 - Quantity varies because the equipment being procured is COTS/NDI. Unit Price Cost (UPC) varies due to different configurations and economy of scale.

Cost Code: 1U040 - Congressional Add Cost Cost: 1U050 - Congressional Add

UNCLASSIFIED CLASSIFICATION

DATE: PROCUREMENT HISTORY AND PLANNING February 2006 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT SHIPBOARD IW EXPLOIT SYSTEMS 2360 521U CONTRACTOR CONTRACT RFP DATE SPECS DATE COST **ELEMENT OF COST** FΥ AND **METHOD** LOCATION ISSUE **AWARD** OF FIRST QTY UNIT **AVAILABLE** REVISIONS CODE OF PCO DATE DATE **DELIVERY LOCATION** & TYPE COST **AVAILABLE** NOW 1U010 T-RDF ANTENNAS SWRI SA, TEXAS OPTION/FFP SSC/CH N/A Jan-05 Jun-05 2 414 YES N/A 1U017 | SSEE INCREMENT E 05 ARGON, VA OPTION/FFP OSP N/A Nov-04 Nov-05 8 3,413 YES N/A 06 ARGON, VA OPTION/FFP OSP N/A Feb-06 YES N/A Feb-07 7 3,600 ARGON, VA OPTION/FFP OSP 07 N/A Nov-06 Nov-07 9 4,300 YES N/A 1U020 NAVY ELECTRONIC SUPPORT MEASURES 05 **VARIOUS** OPTION/FFP SSC-SD N/A Jan-05 Oct-05 3 169 YES N/A 06 **VARIOUS** OPTION/FFP SSC-SD N/A 173 YES Feb-06 Dec-06 N/A 4 1U027 CDLS 04 **CUBIC CORP** OPTION/FFP **SPAWAR** N/A Mar-04 Sep-05 7 3,135 YES N/A **CUBIC CORP** 05 OPTION/FFP **SPAWAR** N/A YES N/A Dec-04 Jun-06 3 2,948 06 **CUBIC CORP** OPTION/FFP **SPAWAR** YES N/A Feb-06 Aug-07 2 2,481 N/A 07 YES **CUBIC CORP** OPTION/FFP **SPAWAR** N/A 3,200 N/A Dec-06 Jun-08

D. REMARKS

DD FORM 2446, JUN 87

P-1 Shopping List-Item No 43 - 4 of 13

MODIFICATION TITLE: T-RDF ANTENNAS-SHIP

COST CODE 1U010 / 1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) Transportable Radio Direction Finding (T-RDF) is a complete communication band shipboard T-RDF system for signal acquisition and

bearing computation for surface combatants and is designed to operate in the harsh shipboard environment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINIANIOIAI	DI ANI	/m · ·	102 A
FINANCIAL	PLAN:	(20 III	millions

Notes/Comments:

	PY			FY	′ 0 <u>5</u>	F١	<u>/ 06</u>	F	Y 07	FY	08	FΥ	<u> </u>	FY	10	FY	11	Т	Г <u>С</u>	To	tal
	PY Qty	\$	ĺ	Qty	<u>-00</u> \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	<u>10</u> \$	Qty	 \$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Equipment Nonrecurring	33	6.0		2	0.8								•				·		•	35	6.8
Engineering Change Orders Data Training Equipment Production Support Other (DSA)		2.0 1.7			0.3 0.01																2.3 1.7
Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP	28 26 2	7.9 6.8 1.1		5 5	3.2	2	1.3													35 26 7 2 0	12.4 6.8 4.3 1.3 0.0
FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 17 EQUIP FY TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		9.6 17.6			3.2 4.4		1.3 1.3 ADMIN	NSTRATI'	0.0 0.0 VE LEADT	IME:	3 MOS			PRODUC	CTION LI	EADTIME		5 MOS			14.1 23.3
CONTRACT DATES:							FY 200	05:	Jan-05			FY 2006	6:								
DELIVERY DATES:							FY 200	05:	Jun-05			FY 2006	6:								
INSTALLATION SCHEDULE:		<u>PY</u>			1	2 2	<u>Y 06</u> 3	4	_	1	2	<u>FY07</u>	4	_	1	2	<u>FY08</u> 3	4			
NPUT		33				1	1														
OUTPUT		33				1	1														
			<u> </u>				FY10					<u>FY11</u>									
INSTALLATION SCHEDULE:	1	2	3 4		1	2	3	4	_	1	2	3	4	-						TC	_
INPUT																					
OUTPUT																					

FY 08

FY 09

FY 10

FY 11

TC

Total

MODIFICATION TITLE: SSEE INCREMENT E - SHIP

COST CODE 1U017/1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) The SSEE Program will provide the battle group the capability to exploit Signals Of Interest (SOI) by providing a state-of-the-art system which detects, acquires, and collects

FY 06

data on any potential threat to the Strike Group. This information, in conjunction with Combat/EW Systems and C3I elements, supports the tactical combat decision

FY 07

making process and the national or strategic collection objective.

FY 05

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Qty				FY 05		Y 06	FY 07			<u>′ 08</u>	FY		FY 1			<u>11</u>		<u>IC</u>	To	
	Qty	\$		Qt	/ \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																					
PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment	15	54.5		8	27.3	7	25.2	9	38.7	8	35.0									47	180.7
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Production Support		4.8			2.3		2.3		3.0		3.0										15.4
Other (DSA)		2.7			1.4		0.7		2.5		2.1		0.6								10.1
Interim Contractor Support																					
Installation of Hardware	4	2.8		9	6.3	8	7.4	9	8.4	9	8.5	8	7.7							47	41.1
PRIOR YR EQUIP	4	2.8		9	6.3			2	1.9											15	11.0
FY 05 EQUIP						8	7.4													8	7.4
FY 06 EQUIP								7	6.6											7	6.6
FY 07 EQUIP										9	8.5									9	8.5
FY 08 EQUIP												8	7.7							8	7.7
FY 09 EQUIP																					
FY 10 EQUIP																					
FY 11 EQUIP																					
FY TC EQUIP																					
TOTAL INSTALLATION COST		2.8			7.7		8.1		10.9		10.6		8.3								51.1
TOTAL PROCUREMENT COST		64.8			37.3		35.6		52.6		48.6		8.3								247.2
METHOD OF IMPLEMENTATION:								TRATIVE	LEADTIM		3 MOS			PRODUCTION	ON LEAD	TIME:		12 MOS			
CONTRACT DATES:										FY 2005:		Nov-04		FY 2006:		Feb-06		FY 2007:		Nov-06	
DELIVERY DATES:										FY 2005:		Nov-05		FY 2006:		Feb-07		FY 2007:		Nov-07	
522.72.7. 57.7.20.										2000.				2000.		. 05 0.		2001.			
		PY					FY 06					FY07					FY08				
INSTALLATION SCHEDULE:					1	2	3	4		1	2	3	4		1	2	3	4			
									-										•		
INPUT		13			1	3	2	2		1	3	3	2		2	2	3	2			
OUTPUT		13			1	3	2	2		1	3	3	2		2	2	3	2			
						-	_	_			-	-	_		_	_	-	_			
			FY09				FY10					FY11									
INSTALLATION SCHEDULE:	1	2	3	4	1	2	3	4		1	2	3	4					TC		TOTAL	
									_					_							
INPUT	1	3	2	2																47	
OUTPUT	1	3	2	2																47	

Notes/Comments

SSEE is a spiral development program. FY03 - FY08 will procure Increment E.

MODIFICATION TITLE: SSEE INCREMENT E - SHORE

COST CODE 1U017/1U776

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) The SSEE Program will provide the battle group the capability to exploit Signals Of Interest (SOI) by providing a state-of-the-art system which detects, acquires, and collects

data on any potential threat to the Strike Group. This information, in conjunction with Combat/EW Systems and C3I elements, supports the tactical combat decision

making process and the national or strategic collection objective.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(<u>PY</u>			FY	05	FY	06	FY 07		FY (80	FY (09	FY 1	10	FY	11	<u>T(</u>	2	Tot	<u>tal</u>
	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Shore Pre-Installation Design	5	18.2								,				,				,		5	18.2
Interim Contractor Support Installation of Hardware	2	0.4		3	0.6															5	0.6
PRIOR YR EQUIP																					
FY 04 EQUIP	2	0.4		3	0.6															5	1.0
FY 05 EQUIP																					
FY 06 EQUIP																					
FY 07 EQUIP																					
FY 08 EQUIP																					
FY 09 EQUIP																					
FY 10 EQUIP																					
FY 11 EQUIP FY TC EQUIP																					
TOTAL INSTALLATION COST		0.4			0.6																0.6
TOTAL INSTALLATION COST		18.6			0.6																18.8
METHOD OF IMPLEMENTATION:	<u> </u>	10.0	<u> </u>		0.0	<u> </u>	ADMINIST	RATIVE LE	ADTIME	: 3	3 MOS			PRODUCT	TION LE	ADTIME	:	12 MOS			10.0

CONTRACT DATES:

DELIVERY DATES:

INSTALLATION SCHEDULE:	PY	<u>FY 06</u> 1 2 3 4	1 2 3 4	<u>FY08</u> 1 2 3 4	
INPUT	5				
OUTPUT	5				
INSTALLATION SCHEDULE:	<u>FY09</u> 1 2 3 4	<u>FY10</u> 1 2 3 4	<u>FY11</u> 1 2 3 4		TC TOTAL

INPUT OUTPUT

5

5

Notes/Comments

Production support shown on P3-A, SSEE Inc E -Ship.

P-1 Shopping List - Item No. 43 - 7 of 13

MODIFICATION TITLE: SSEE INCREMENT F - SHIP

COST CODE 1U017/1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) The SSEE Program will provide the battle group the capability to exploit Signals Of Interest (SOI) by providing a state-of-the-art system which detects, acquires, and collects

data on any potential threat to the Strike Group. This information, in conjunction with Combat/EW Systems and C3I elements, supports the tactical combat decision

making process and the national or strategic collection objective.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	<u>PY</u> Qty	•	I	FY 05	FY C	<u>06</u>	FY 07 Qty	•	FY (FY.	09	<u>FY</u> Qty	<u>10</u>	Qty	<u>′ 11</u> §		<u>rc</u> \$		otal
DDT1E	Qly	\$		Qty \$	Qty	Ф	Qty	\$	Qty	\$	Qty	Ф	Qiy	Ф	Qty	ð	Qty	ð	Qty	Ф
RDT&E																				
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring												45.0	40	04.0	40	00.4	00	004.0	00	070 5
Equipment											9	45.9	12	61.2	12	62.4	33	201.0	66	370.5
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment												4.0		4.5		4.0		11.4		04.4
Production Support												4.3 1.1		4.5 2.2		4.2 2.1		7.0		24.4 12.4
Other (DSA) Interim Contractor Support												1.1		2.2		2.1		7.0		12.4
Installation of Hardware													9	9.0	12	12.2	45	27.9	66	49.1
PRIOR YR EQUIP													9	9.0	12	12.2	40	21.5	00	45.1
FY 04 EQUIP																				
FY 05 EQUIP																				
FY 06 EQUIP																				
FY 07 EQUIP																				
FY 08 EQUIP																				
FY 09 EQUIP													9	9.0					9	9.0
FY 10 EQUIP													-		12	12.2			12	12.2
FY 11 EQUIP																				
FY TC EQUIP																	45	27.9	45	27.9
TOTAL INSTALLATION COST												1.1		11.2		14.3		34.8		61.5
TOTAL PROCUREMENT COST												51.3		76.9		80.9		247.2		456.3
METHOD OF IMPLEMENTATION:			•		AD	MINIS	TRATIVE L	EADTIN	IE:	3 MOS			PRODUCT	ION LEAD	TIME:		12 MOS			

CONTRACT DATES:

DELIVERY DATES:

 PY
 FY 06
 FY07
 FY08

 INSTALLATION SCHEDULE:
 1 2 3 4 1 2 3 4
 1 2 3 4
 1 2 3 4

INPUT

OUTPUT

INSTALLATION SCHEDULE:	<u>FY09</u> 1 2 3 4	2 3	4	1 2 <u>FY11</u> 1 2 3 4	TC	TOTAL
INPUT		3 3	3	4 4 4	45	66
OUTPUT		3 3	3	4 4 4	45	66

Notes/Comments

SSEE is a spiral development program. FY09 -Begin Increment F procurement, with new antenna design and P3I...

MODIFICATION TITLE: SSEE INCREMENT F - SHORE

COST CODE 1U017/1U776

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) The SSEE Program will provide the battle group the capability to exploit Signals Of Interest (SOI) by providing a state-of-the-art system which detects, acquires, and collects

data on any potential threat to the Strike Group. This information, in conjunction with Combat/EW Systems and C3I elements, supports the tactical combat decision

making process and the national or strategic collection objective.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(*	PY			FY	05	FY	06	FY 07		FY	80	FY	09	FY	10	FY	11	TC		To	tal
	PY Qty	\$	1	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support	Qiy	Ψ		Qiy	Ψ	Giy	Φ	Qty	\$	Gity	9	2	10.2	2	10.2	Qiy	Φ	Gily	p	4	20.4
Shore Pre-Installation Design Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP														2	0.9	2	0.9			4	1.0
FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP														2	0.9	2	0.9			2 2	0.5 0.5
TOTAL INSTALLATION COST						,	,		•		ĺ				0.9		0.9				1.0
TOTAL PROCUREMENT COST	<u> </u>					L	DIAMINOT	DATN (5 5	ADTIME	L		l	10.2	DDODLIO	11.1	ADTIME	0.9	10.1100			21.4
METHOD OF IMPLEMENTATION:						F	NUMINIST	RATIVE LE	ADTIME:	: ;	3 MOS			PRODUC	TION LE	AD TIME	::	12 MOS			

CONTRACT DATES:

DELIVERY DATES:

INPUT

OUTPUT

INSTALLATION SCHEDULE:	<u>FY09</u> 1 2 3 4	<u>FY10</u> 1 2 3 4	1 2 <u>FY11</u> 3 4	TCTOTA
INPUT		1 1	1 1	4
OUTPUT		1 1	1 1	4

Notes/Comments

SSEE is a spiral development program. FY09 -Begin Increment F procurement, with new antenna design and P3I..

Production Support shown on P-3a, SSEE INC F Ship.

MODIFICATION TITLE: Communication Data Link System -(CDLS) - Ship

COST CODE 1U027/1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: CDLS provides a wideband data link between Navy/Joint Airborne systems and the shipboard processors of national tactical reconnaissance programs. It is designed to communicate with the Signals Intelligence

FY 06

FY 05

Mission, the Distributed Common Ground Station - Navy (DCGS-N), the Aircraft Carrier Tactical Support Center (CV-TSC), and the Joint Surveillance Target Attack Radar System (JSTARS).

FY 08

FY 09

FY 10

FY 11

TC

Total

FY 07

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	PY			FY		FY		<u>FY</u>		FY		FY		FY		FY		<u>T(</u>		<u>To</u>	
	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	25	136.6		3	8.8	2	5.0	1	3.2	3	7.6	4	11.5							13 25	36.0 136.6
Data Training Equipment Production Support Other (DSA) Interim Contractor Support		2.9 1.1			0.6 0.6		0.6 0.8		0.7 0.7		0.7 0.4		0.6 0.9		0.3 0.6		0.3 0.1				6.7 5.2
Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP	16 16	13.5 13.5		1 1	1.1 1.1	5	5.5 5.5	5 3 2	6.5 3.9 2.6	2	2.7	1	1.3	5	6.8	2	3.5			37 25 2 2 1	40.7 23.9 2.6 2.7 1.3
FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP														3 2	4.1 2.7	2	3.5			3 4	4.1 6.2
TOTAL INSTALLATION COST		14.6			1.7		6.3		7.1		3.1		2.1		7.4		3.6		0.0		45.9
TOTAL PROCUREMENT COST		154.0			11.1		11.9		11.0		11.4		14.2		7.7		3.9		0.0		225.2
METHOD OF IMPLEMENTATION:				•	ADMIN	ISTRATIVI	E LEAD	ГІМЕ:	2 MOS			PRODUC	TION L	EADTIME	l:	18 MOS				•	
CONTRACT DATES:			FY 2004:	Mar-04		FY 2005:		Dec-04		FY 2006	:	Feb-06		FY 2007		Dec-06					
DELIVERY DATES:			FY 2004:	Aug-05		FY 2005:		Jun-06		FY 2006	:	Aug-07		FY 2007		Jun-08					
INSTALLATION SCHEDULE:		PY	-		1	<u>FY06</u> 2	3	4		1	<u>FY07</u> 2	3	4		1	<u>FY08</u> 2	3	4			
INPUT		17			1	2	1	1		1	2	1	1				1	1			
OUTPUT		16			1	1	2	1		1	1	2	1		2			1			
INSTALLATION SCHEDULE:	11	<u>FY09</u> 2	3 4		1	FY10 2	3	4	<u>-</u>	11	<u>FY11</u> 2	3	4	=				TC		TOTAL	
INPUT	1	1				1	2	2			1	1								38	
OUTPUT	1	1	1				1	2		2		1	1							39	

Notes/Comments

FY05 and out will backfit fielded CHBDL-ST systems.

Install Schedule has changed due to CNO Avail.

*FY05 - 1 Install VIG (Video Interface Group), not part of procurement quantity

RVMQQSXXVXXXXQFXCHX& / 6 DQG&+%' / %3 URFXHP HQVVXXQQ VVCR QRXM OPFXXHP ,* 9 ICFR, QVM IDFH* URXS

PY PRODUCTION LEAD TIME WAS 24 MOS due to initial production start-up. FY05 AND OUTYEARS REFLECTS A PRODUCTION LEAD TIME OF 18 MOS.

CONTRACT DOES NOT ALLOW LESS THAN 2 UNITS PER YEAR TO BE ORDERED.

MODIFICATION TITLE: Communication Data Link System - NAVY (CDLS) - Shore

COST CODE 1U027/1U776

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: CDLS provides a wideband data link between Navy/Joint Airborne systems and the shipboard processors of national tactical reconnaissance programs. It is designed to communicate with

the Signals Intelligence Mission, Distributed Common Ground Station - Navy (DCGS-N), the Aircraft Carrier Tactical Support Center (CV-TSC) and the Joint Surveillance

Target Attack Radar System (JSTARS).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

RDT&E PROCUREMENT: Kit Quantity Installation Kits

Installation Kits Nonrecurring															
Equipment	7	34.7												7	34.7
Equipment Nonrecurring															
Engineering Change Orders															
Data															
Training Equipment															
Production Support *															
Other (DSA)															
Interim Contractor Support															
Installation of Hardware	4	2.8		2	1.0	1	0.5							7	4.3
PRIOR YR EQUIP	4	2.8		2	1.0	1	0.5							7	4.3
FY 05 EQUIP															
FY 06 EQUIP															
FY 07 EQUIP															
FY 08 EQUIP															
FY 09 EQUIP															
FY 10 EQUIP															
FY 11 EQUIP															
FY TC EQUIP															
TOTAL INSTALLATION COST		2.8			1.0		0.5							†	4.3
TOTAL PROCUREMENT COST		37.5			1.0		0.5							1	39.0
METHOD OF IMPLEMENTATION:					ADMIN	ISTRATIV		TIME: 2 MOS	L	PRODUCTION L	EADTIME:	18 MOS	·L	.1	
CONTRACT DATES:									FY 2004:	Mar-04					
DELIVERY DATES:									FY 2004:	Aug-05					
	_	PY	=				FY 06			FY07		FY 08			
INSTALLATION SCHEDULE:					1	2	3	4	1 2	3 4	11	2 3	4		
INPUT		6			1										
OUTPUT		6			1										
		FV	00			y	10			FV 11					
		HΥ	(19)			FY	1()			EY II					

Notes/Comments

INPUT OUTPUT

* Production Support shown on P-3A, CDLS SHIP

PY installs are CHBDL-ST systems

INSTALLATION SCHEDULE:

Procurement/Install Qtys do not reflect the VIG (Video Interface Group)

TC

TOTAL

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ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
1U010 - T-RDF Antennas	SWRI SA, Texas	2	8	10						
1U017 - SSEE Increment E	ARGON, VA	*	*	*						
1U020 - Navy Electronic Support Measures	VARIOUS	*	*	*						
1U027 - CDLS	Cubic, CA	2	8	10						

P-1 Shopping List-Item No 43 - 12 of 13

Exhibit P-21 Production Schedule

Unclassified

Classification

UNCLASSIFIED CLASSIFICATION

	CLASSIFICATION																																						
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APPROF	PRIATION/BUDGET ACTIVITY														Р	-1 ITE	M NO	OMEN	ICI A	TURI	F					(50	, D L /		· · -	.,			S	UBH	EAD	NO.			-
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			PRODUCTION RATE	E		PROCUREMEN	T LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
1U017 - SSEE Increment E	ARGON, VA	*	*	*						
1U027 - CDLS	Cubic, CA	2	8	10						

P-1 Shopping List-Item No 43 - 13 of 13

Exhibit P-21 Production Schedule Unclassified

Classification

UNCLASSIFIED

		BUDG	ET ITEM JUSTIFICA	ATION SHEE	Т			DATE:			
			P-40						Februa	ary 2006	
APPROPRIATION/BL	JDGET ACTIVIT	Υ				P-1 ITEM NOM	ENCLATURE			-	
OTHER PROCUR	EMENT, NA	VY/BA-2				SUBMA	ARINE SUPP	ORT EQUIP	MENT PROG	RAM/256000/	256005
Program Element for	Code B Items:					Other Related I	Program Elemer	nts			
	Prior Years	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total
QUANTITY										·	
COST (In Millions)			\$85.3	\$94.7	\$83.1	\$107.1	\$112.2	\$114.0	\$117.0	CONT	\$713.4
SPARES COST (In Millions)			\$1.6	\$1.5	\$2.9	\$3.5	\$2.9	\$3.9	\$3.8	CONT	\$20.1

SSEP:

- (U) The Submarine Support Equipment Program was established to develop and support systems which provide the capability to exploit signal intercepts for tactical support and early warning of threat sensors. The Electronic Warfare Support (ES) Operational Requirements Document (ORD) Ser. No. 570-77-00 dated 20 Dec. 2000, established funding to procure AN/BLQ-10(V) Electronic Warfare Support and ICADF systems to provide a modern ES capability to LOS ANGELES, SEAWOLF, OHIO Class and SSGN submarines. Funds also procure Reliability, obsolescence and Operational Field Change Kits for the AN/WLR-8(V)2, a tactical ES Receiver for the LOS ANGELES Class submarines providing intercept, surveillance, and signal parameter analysis of electromagnetic signals for threat warning, and procures field changes to the AN/BRD-7 direction finding system as well as modification kits to the AN/BLQ-10 (V) ES System. This program also procures support equipment for shore based acoustic intelligence analysis centers. Funds buy unique equipment in limited quantities that are maintained in a pool and rotated among attack submarines as dictated by scheduled operations and to provide specific capability improvements to major SSN sensor systems. Funds also procure modification kits to the AN/WLR-1H(V) Countermeasures Receiving Set for WHEC Cutters.
- A. ML003 SSEP special support equipment allows the procurement of special purpose test equipment utilized by the Type Commander Groom Teams. Exact quantities vary from year to year based on Fleet requirements.
- B. ML005 Procures AN/BRD-7 Reliability and Maintainability (R&M), obsolescence and operational Field Change Kits (i.e.); Analog Relay Replacement, Digital Compression Filter, Bearing Processor, Loop Multi-Coupler and Intermediate Frequency (IF) upgrade, and related H,M&E sail components.
- C. ML007 Procures the ICADFcommunications direction finding system below deck units for installation on LOS ANGELES, SSGN and SEAWOLF Class submarines.
- D. ML008 Procures the ICADF Multi-Function Modular Mast (MMM) Antenna for installation on LOS ANGELES, SSGN and SEAWOLF Class submarines.
- E. ML009 Procures AN/BLQ-10 (V) Advance Processor Build (APB-EW) builds for installation on LOS ANGELES and SEAWOLF Class submarines.
- F. ML010 Procures AN/BLQ-10 (V) technical refresh upgrades hardware builds including the hardware builds supporting platform level SWFTS interfaces for installation on LOS ANGELES and SEAWOLF Class submarines.

P-1 SHOPPING LIST

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86 ITEM NO. 44 PAGE NO. 1

UNCLASSIFIED CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40		February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-2	SUBMARINE SUPF	PORT EQUIPMENT PROGRAM/256000/256005
G. ML011 - Procures AN/WLR-8 R&M Field Change Kits (i.e.); Digital Display Unit (DDU) obsolescence upg	grade, Solid State Memory, and	Heat Dissipation improvement.
H. ML013 - Procures special purpose test equipment to aid in testing and troubleshooting EW Systems at the	e Submarine Intermediate Maint	enance Activity (IMAs) and depot facilities.
I. ML015 - Procures the AN/BLQ-10(V)2/3/4 ES System for installation on LOS ANGELES, SEAWOLF, TRIE	DENT Class and SSGN submar	ines.
J. ML017 - Procures AN/BLQ-10 (V) and ICADF subsystem Product Improvement Field Change Kits incl (ENTR)/GALE upgrade, Info Assurance (IA)/Solaris upgrade, Exterior Comms System (ECS) Point to Point Federated Tactical Systems (SWFTS) upgrades and associated Integrated Logistics Support (ILS) and tea Attack (IO/EA) Paypoads for SSN Submarines and Permanent IO/EA Capability on forward deployed submar	t upgrade, SIGINT carry-on equ chnical data. Funds also procu	ipment racks, LPI Radar Receiver, and Submarine Warfare
K. MLCA1 - Procures AN/BLQ-10 (V) Tech Refresh Radar Narrow Band (RNB) tuners.		
L. ML5IN - Provides for the Installation of Equipment including Fleet Modernization Program Installations for	shipboard systems.	
P-1 SHOPPING LIST	CLASSIFICAT	ION:

DD Form 2454, JUN 86 ITEM NO. 44 PAGE NO. 2

UNCLASSIFIED CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40		February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-2	SUBMARINE SUP	PORT EQUIPMENT PROGRAM/256000/256005
AN/WLR-1 SURFACE - N76		
SURFACE WARFARE (N76):		
A. ML5IN - FY05-FY06 funding is for the installation of modification kits required to replace obsolete and Cutters.	d high maintenance components	and to extend the life cycle of the system on WHEC Class
P-1 SHOPPING LIST	CLASSIFICAT	ION:

ITEM NO. 44 PAGE NO. 3 DD Form 2454, JUN 86

UNCLASSIFIED

	WEAPONS SYSTEM CO	OST AN	ALYSIS			Weapon Sy	stem							DATE:	
∧DDD∩DI	P-5 RIATION/BUDGET ACTIVITY					ID Code	D_1 ITEM NO	OMENCLATUR	E/QLIBHEAD					Februar	y 2006
	ocurement, Navy					ID Code	F-III LIVIIN	JIVILINOLATON	L/SOBITEAD						
	DMMUNICATION & ELECTRONIC EQU	JIPMEN				Α	SUBI	MARINE SUF	PPORT EQU	IPMENT P	ROGRAM/25	6000/256005	5		
			TOTAL COST	IN THOUS	ANDS OF DOL	LARS									
COST CODE	ELEMENT OF COST	ID Code			FY			FY 2005			FY 2006			FY 2007	
CODE		Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SUBMARINE WARFARE (N77)														
ML003	SSEP Special Support Equipment	Α							265			270			27
ML005	AN/BRD-7 FCKs	А							850			589			49
ML007	ICADF	А					3	3,026	9,079	5	3,498	17,490	2	3,224	6,44
ML008	ICADF MMM Antenna	A					3	3,510	10,529	6	2,628	15,770	4	2,395	9,58
ML009	APB - EW	A							1,452			150			28
ML010	Tech Refresh Upgrades	А							2,093			160			30
ML011	AN/WLR-8 R&M FCKs	А							881			489			39
ML013	ESM IMA Support	A							41			182			18
ML015	AN/BLQ-10(V) SSN ES System	A					5	7,130	35,650	7	6,526	45,682	7	6,411	44,87
ML017	AN/BLQ-10(V) FCKs	А							6,958			3,292			6,01
MLCA1	AN/BLQ-10(V) Tech Refresh	А							7,000			3,150			(
	SUB-TOTAL PROCUREMENT 2446. JUN 86		OPPING LIST			0			74,798			87,224 CLASSIFICA			68,86

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 44

PAGE NO 4.

CLASSIFICATION:

	WEAPONS SYSTEM C	OST AN	IALYSIS			Weapon Sy	stem							DATE:	
APPROP	P-5 PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATUI	RE/SUBHEAD					Febru	ary 2006
	rocurement, Navy/BA-2					.5 5500			, 555112110						
	OMMUNICATION & ELECTRONIC EQ	UIPME	NT			Α	SUE	MARINE SU	JPPORT EQU	JIPMENT P	ROGRAM/2	56000/25600	5		
			TOTAL COS	T IN THOUS	ANDS OF DOI	LLARS									
COST	ELEMENT OF COST	ID On the						FY 2005			FY 2006			FY 2007	
CODE		Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Co
	SUBMARINE WARFARE (N77)														
_5IN	FMP Installation of Equipment														
	ICADF	Α							0			1,800			5,
	ICADF DSA	Α							0			450			
	ICADF MMM Antenna	Α							0			1,090			2,
	ICADF MMM Antenna DSA	Α							0			275			
	AN/BLQ-10(V) SSN ES System	Α							6,827			2,008			4,
	AN/BLQ-10(V) SSN ES System DSA	Α							3,247			1,314			
	SIGINT Carry-On Equipment Racks	Α							316			0			
	SIGINT Carry-On Equipment Racks DSA	Α							79			0			
	Information Assurance(I/A) Solaris	A							0			408			
	Information Assurance(I/A) Solaris DSA	A							0			102			
	Air AN/WLR-1H(V)7 - N78	A							0			0			
	Surface AN/WLR-1H(V)7 - N76	A							0			57			
	SUB TOTAL FMP INSTALL					0			10,469			7,504			14
D EC 51 :	GRAND TOTAL 2446, JUN 86	D (5):	OPPING LIST			0			85,267			94,728 CLASSIFICA			83,

UNCLASSIFIED

	WEAPONS SYSTE		ANALYSIS	3			Weapon Sy	stem							DATE:	F.1.	
ADDDO	PRIATION/BUDGET ACTIVITY	P-5					ID Code	D 1 ITEM	NOMENICI A	TURE/SUBHI	EAD					Febr	uary 2006
	Procurement, Navy						ID Code	F-III EIVI	NOMENCLA	TUNE/SUBILI	EAD						
	COMMUNICATION & ELECTRONIC EC	JUDMEN	JT				Α	SHE	MARINE	SUPPORT F	OHIDMEN	IT PPAGE	AM/256000/	256005			
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COST	ELEMENT OF COST		FY 2008			FY 2009			FY 2010			FY 2011		To	Complete		Total
CODE																	
		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
	SUBMARINE WARFARE (N77)																
ML003	SSEP Special Support Equipment			280			285			291			297				
ML005	AN/BRD-7 FCKs			208			212			216			221				
ML007	ICADF	5	3,465	17,327	5	3,338	16,689	4	3,036	12,142			0				
ML008	ICADF MMM Antenna	7	2,435	17,047	8	2,479	19,833	9	2,524	22,714	9	2,569	23,123				
IVILUUG	ICADE IVIIVIIVI AITEITIA	,	2,430	17,047	0	2,419	19,033	9	2,324	22,114	9	2,309	23,123				
ML009	APB - EW			648			1,178			1,087			1,246				
ML010	Tech Refresh Upgrades			801			1,226			1,131			1,296				
MIO44	ANIAMI D O DOM FOIG			200			240			040			204				
ML011	AN/WLR-8 R&M FCKs			308			312			316			321				
ML013	ESM IMA Support			190			193			197			201				
ML015	AN/BLQ-10(V) SSN ES System	7	6,466	45,261	8	6,579	52,630	7	6,709	46,962	2	6,747	13,494				
			,	,		,	,		,	,		,	,				
N 41 04 0	AN/DI O 40//05 00DN 50 0								0.404	0.040	40	0.407	00.044				
ML016	AN/BLQ-10(V)5 SSBN ES System			0			0	2	3,124	6,248	12	3,187	38,244				
ML017	AN/BLQ-10(V) FCKs			6,783			3,717			5,084			16,460				
]	SUB TOTAL PROCURMENT	_		88,853			96,275			96,388			94,903		0		-

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO.

PAGE NO.

CLASSIFICATION:

UNCLASSIFIED

P-5 APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-2 BA2: COMMUNICATION & ELECTRONIC EQUIPMENT A SUBMARINE SUPPORT EQUIPMENT PROGRAM/256000/256005	Total Luantity Cost
Other Procurement, Navy/BA-2 BA2: COMMUNICATION & ELECTRONIC EQUIPMENT A SUBMARINE SUPPORT EQUIPMENT PROGRAM/256000/256005	
BA2: COMMUNICATION & ELECTRONIC EQUIPMENT A SUBMARINE SUPPORT EQUIPMENT PROGRAM/256000/256005	
COST ELEMENT OF COST FY 2008 FY 2009 FY 2010 FY 2011 To Complete CODE CODE	uantity Cost
ML5IN FMP Installation of Equipment	
ICADF A 6,545 3,816 4,865 6,951	
ICADF DSA A 982 571 731 1,043	
ICADF MMM Antenna A 2,548 1,484 1,890 2,702	
ICADF MMM Antenna DSA A 382 223 284 405	
AN/BLQ-10(V) ES System A 6,288 8,504 7,588 8,848	
AN/BLQ-10(V) ES System DSA A 998 1,296 2,295 2,193	
SIGINT Carry-On Equipment Racks A 0 0 0 0	
SIGINT Carry-On Equipment Racks DSA A 0 0 0 0	
Information Assurance(I/A) Solaris A 424 0 0 0	
Information Assurance(I/A) Solaris DSA A 64 0 0 0	
TOTAL FMP - INSTALLATION 18,231 15,894 17,653 22,142	
GRAND TOTAL 107,084 112,169 114,041 117,045 0	
DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:	(

PAGE NO.

DD FORM 2446, JUN 86 P-1 SHOPPING LIST ITEM NO.

BUDGET PROCUREMEN	IT HISTOR	Y AND PL	ANNING EXHIBIT (P-5A)		Weapon System		A. DATE		
								<u> </u>	February 20	006
B. APPROPRIATION/BUDGET ACT	TIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement, Nav	y									
BA-2						SUBMARINE SUPPORT	EQUIPM	MENT PRO	GRAM/256	000/25600
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY-05										
ML007-ICADF	3	3026	NSSSO	10/04	SS/FFP	Lockheed Martin, NY	1/05	1/07	YES	N/A
ML008-ICADF MMM Antenna	3	3510	NSSSO	10/04	SS/FFP	Lockheed Martin, NY	1/05	1/07	YES	N/A
ML015- AN/BLQ-10	5	7130	NSSSO	10/04	SS/FFP	Lockheed Martin, NY	1/05	7/06	YES	N/A
FY-06										
ML007-ICADF	5	3498	NSSSO	10/05	SS/FFP	Lockheed Martin, NY	6/06	1/08	YES	N/A
ML008-ICADFMMM Antenna	6	2628	NSSSO	10/05	SS/FFP	Lockheed Martin, NY	6/06	1/08	YES	N/A
ML015- AN/BLQ-10	7	6526	NSSSO	10/05	SS/FFP	Lockheed Martin, NY	6/06	12/07	YES	N/A
FY-07										
ML007-ICADF	2	3224	NSSSO	10/06	SS/FFP	Lockheed Martin, NY	4/07	1/09	YES	N/A
ML008-ICADF MMM Antenna	4	2395	NSSSO	10/06	SS/FFP	Lockheed Martin, NY	4/07	1/09	YES	N/A
ML015- AN/BLQ-10	7	6411	NSSSO	10/06	SS/FFP	Lockheed Martin, NY	4/07	10/08	YES	N/A
D. REMARKS		l		1	l	<u>I</u>	1	1		<u> </u>

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST 44 Classification:

PAGE NO. 8 UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						February 2006
P3A		INDIVIDUA	L MO	DIFICAT	ΓΙΟΝ																	
MODELS OF SYSTEM AFFECTED:		system COM	IMS D	<u>F</u>	TYP	E MODIF	FICAT	ION:	Shipa	lt					MOD	IFICATI	ON TI	TLE:	ICAD	F (Below D	ecks)	
DESCRIPTION/JUSTIFICATION:	ML00	07																				
Provides advanced low-band COMINT Dir					mpatil	ole with (CLASS	SIC TRO	LL and	AN/BLC	Q-10 S	SN ES s	system	n. Replac	es ob	solete A	N/BRI	D-7 belov	v dec	ks equipme	nt with mo	odern, open
architecture system compliant with Maritin	ne Cry	ptologic Arc	hitect	ure.																		
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILEST	TONE:	S:																		
	FY 2	004 & Prior		FY	F١	2005	FΥ	2006	FY	2007	FY	2008	F`	Y 2009	FY	2010	FY	2011		<u>TC</u>		<u>TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY		QTY		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																					0	0.0
EQUIPMENT	4	25.4			3	9.1	5	17.5	2	6.5	5	17.3	5	16.7	4	12.1					28	104.6
EQUIPMENT NONRECURRING																					0	0.0
ENGINEERING CHANGE ORDERS																					0	0.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER: CCM																					0	0.0
OTHER: CNSG TRANSFER EQUIPMENT	Г 1						2		2				2						19		26	0.0
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
INSTALL COST								2.3		6.3		7.5		4.4		5.6		8.0		21.7		55.8

19.8 4 12.8 5 24.8 7 21.1 ITEM 44 PAGE 9

TOTAL PROCUREMENT

4 17.7 0 8.0 19.0 21.7 54 160.

CLASSIFICATION: UNCLASSIFIED

160.4

CLASSIFICATION: UN	CLASS	SIFIE)																				February 2	2006				
P3A (Continued)					INDIVI	IDUAI	MODIFIC	ATIO	N (Continued)																			
MODELS OF SYSTEMS	S AFFE	CTE	D: <u>ES S</u> ML0		OMMS I	<u>DF</u>	_ MOI	DIFICA	ATION TITLE:		ICADI	E (Belo	ow D	ecks)								-						
INSTALLATION INFOR METHOD OF IMPLEME ADMINISTRATIVE LEA	NTAT	ION:		AITs		_	PRODUC	CTION	I LEADTIME:			2	24 Mo	onths														
CONTRACT DATES: DELIVERY DATE:		2004: 2004:		Jan-05 Jan-07	_		FY 2005: FY 2005:		Jan-05 Jan-07					FY 20 FY 20		Jun-06 Jan-08							Apr-07 Jan-09					
Cost:	1	(\$ IF	Million	s) F	v	1 6	Y 2005	1	FY 2006	1	FY 2007	-	ΕV	/ 2008		FY 2009	1	ΕV	2010	F,	Y 2011	To C	Complete					otal
0031.	Qtv		\$	Qty	\$	Qty		Qty	\$	Qtv			Qty		Qty		G	tv I		Qty	\$	Qty		\$		Qtv	一	\$
PRIOR YEARS	,		*		Ť		*	2	2.3			3.2	.,	7		·		,	*		•			•			5	5.5
																											0	0.0
FY 2005 EQUIPMENT										3		3.2															3	3.2
FY 2006 EQUIPMENT													7	7.5													7	7.5
FY 2007 EQUIPMENT															4	4.	.4										4	4.4
FY 2008 EQUIPMENT																		5	5.6								5	5.6
FY 2009 EQUIPMENT																				7	8.0)					7	8.0
FY 2010 EQUIPMENT																						4			3.8		4	3.8
FY 2011 EQUIPMENT																											0	0.0
TO COMPLETE																						19			17.9		19	17.9
INSTALLATION SCH	EDUL	E:																										
FY 2004			FY			FY	2005		FY 2006			FY 20	07		F)	/ 2008			FY 2009			FY	2010		FY 2011		T	<u>c</u>
& Prior	1	2	3	4	1	2	3 4	1	2 3	4	1	2	3	4 1	2	3 4		1_	2 3	4	1 2	3	4	1	2	3 4	4	TOTAL
In 0	0	0	0	0	0	0	0 0	0	1 1	0	0	2	2	2 0	2	2 3		0	2 2	0	0 1	2	2	1	2	2 2	2 2	3 54
Out 0	0	0	0	0	0	0	0 0	0	1 1	0	0	2	2	2 0	2	2 3	IJL	0	2 2	0	0 1	2	2	1	2	2 2	2 2	3 54
																					P-3/	A						

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CLASSIFICATION: UNCLASSIFIED																						February 2006
P3A		INDIVIDUA	AL MO	DIFICAT	ΓΙΟΝ																	
MODELS OF SYSTEM AFFECTED:	ES S	System CON	MS D	<u>)F</u>	TYPI	E MODII	FICAT	ION:	Shipa	lt					MOD	IFICATI	ON TI	TLE:	ICAD	F Antenna		
DESCRIPTION/JUSTIFICATION:	IVILO	56																				
Synchronizes improved low-band direction system compliant with Maritime Cryptolog			ensor	with cod	ordinate	ed N77/0	CNSG	CLASS	IC TRC	DLL procu	ureme	nt. Repla	aces o	bsolete A	N/BR	D-7 ante	enna e	quipmer	nt with	modern, o	pen-archit	ecture
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	ENT MILES	TONE	S:																		
	FY 2 QTY	004 & Prior \$	QTY	<u>FY</u> ′ \$	<u>FY</u> QTY	<u>/ 2005</u> \$	<u>F\</u> QTY	<u>/ 2006</u> \$	<u>FY</u> QTY	<u>′ 2007</u> \$	<u>F\</u> QTY	<u>/ 2008</u> \$	<u>F`</u> QTY	<u>/ 2009</u> \$	<u>FY</u> QTY	<u>2010</u>	<u>FY</u> QTY	<u>′ 2011</u> \$	QTY	<u>TC</u> \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)		<u> </u>					Q.1.	<u> </u>					Q.I.			Ψ		Ψ	Q.1.	Ψ	- GII	
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																					0	0.0
EQUIPMENT	6	17.3			3	10.5	6	15.8	4	9.6	7	17.0	8	19.8	9	22.7	9	23.1	2	5.2	54	141.0
EQUIPMENT NONRECURRING																					0	0.0
ENGINEERING CHANGE ORDERS																					0	0.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER: CCM																					0	0.0
OTHER: PRE-PROD	1	2.1																			1	2.1
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
INSTALL COST								1.4		2.5		2.9		1.7		2.2		3.1		10.2		24.0

19.4

TOTAL PROCUREMENT

0.0 3 10.5

17.2

ITEM 44

4 | 12.1 | 7 | 19.9 | 8 | 21.5

PAGE

9 24.9

9 26.2 2.0 15.4 55 167 CLASSIFICATION: UNCLASSIFIED

167.1

CLASSIFICATION: UN	CLASS	SIFIED																					February-	06					
P3A (Continued)				INDIVI	DUA	L MODIFIC	CATIO	N (Continue	d)																				
MODELS OF SYSTEMS		ML		OMMS I	<u>DF</u>	_ MO	DIFIC	ATION TITLE	<u>:</u> :	_	ICADF An	tenna	a																
INSTALLATION INFOR METHOD OF IMPLEME ADMINISTRATIVE LEA	ENTAT	ON:	AITs 6 Months	s	_	PRODU	CTION	N LEADTIME:				18 [Months																
CONTRACT DATES: DELIVERY DATE:	FY 2	2004: 2004:	Jan-05 Jan-07	_		FY 2005 FY 2005	j:	Jan-05 Jan-07		_			FY:	2006: 2006:	Jun-06 Nov-0								Apr-07 Jan-09		<u>-</u> -				
Cost:		(\$ in Millio	ns) F	Υ	F	Y 2005	T	FY 2006		FY	′ 2007	F	Y 2008	1	FY 2009		ΕY	/ 2010	F	Y 2011	-	To C	omplete				TO	TAI	
00011	Qty		Qty	\$	Qty		Qty		Qt			Qty		Qty		C	ty	\$	Qty	\$		Qty	\$		Qty	,			
PRIOR YEARS							2		1.4	4	1.7															3			3.1
7.11.011.127.11.0							1 -		-	Ť)			0.0
FY 2005 EQUIPMENT										2	0.8	1	0.4	1												3			1.2
FY 2006 EQUIPMENT										7		6	2.5												-	3			2.5
FY 2007 EQUIPMENT														4	1.	.7									4	1			1.7
FY 2008 EQUIPMENT																	5	2.2	2		0.9					7			3.1
FY 2009 EQUIPMENT	-																		5		2.2	3		1.3	3 8	3			3.5
FY 2010 EQUIPMENT																						9		4.0)			4.0
FY 2011 EQUIPMENT																						9		4.0)			4.0
																									()			0.0
																									()			0.0
TO COMPLETE																						2		0.9	9 2	2			0.9
INSTALLATION SCH	HEDUL						-			— I F						-							1						
FY 2004	Ш.	<u>FY</u>		Ш.	_	2005		FY 2006		. 11		2007			Y 2008			FY 2009		١.	_	Y 20			FY 20		Ţ		
& Prior	0	2 3 0 0		- 1 0		3 4 0 0	\dashv			— I F	1 2 0 2	2	2 0	2		\dashv \vdash	0	$\frac{2}{2} \frac{3}{2}$	4		1	2	2	1	2	3	2 2		TOTAL 54
In 0 Out 0		0 0			0			1		0	0 2	2	2 0	2	2 3		0	2 2	0		1	2	2	1	2	2		3	54 54
Out 0		0 0			0	0 0			'	<u></u>	0 2				2 3	_	0	2 2	0	0	-		2					.5	
																					ρ-3 V								

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CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDU	AL MOD	DIFICAT	ΓΙΟΝ																	Februa	
MODELS OF SYSTEM AFFECTED:		LQ-10 SSI	N ES Ba	ackfit Sy	<u>/:</u> TYPE	E MODI	IFICAT	ION:	Shipa	ılt					MOD	IFICATI	ON TI	TLE:	AN/B	LQ-10(V)2	/3/4		
DESCRIPTION/JUSTIFICATION:	ML01																						_
Provides fully Integrated, covert, forward					,	,								,		,							
DEVELOPMENT STATUS/MAJOR DEV	/ELOPMEN	NT MILEST	ONES:																				J
	FY 20 QTY	004 & Prior \$	QTY	FY_ \$	<u>FY</u> QTY	<u>2005</u>	<u>F\</u> QTY	<u>/ 2006</u> \$	<u>FY</u> QTY	<u>′ 2007</u> \$	<u>FY</u> QTY	2008 \$	<u>F\</u> QTY	<u>/ 2009</u> \$	<u>FY</u> QTY	2010 \$	<u>FY</u> QTY	<u>2011</u>	QTY	TC \$	QTY	TOTAL 9	£
FINANCIAL PLAN (IN MILLIONS)		7		· ·		•						· ·		*		· ·		<u>*</u>		· · ·			
RDT&E																					0	0.	.0
PROCUREMENT																							
INSTALL ATION KITS																					0	0	Λ

FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																					0	0.0
EQUIPMENT	16	88.7			5	35.6	7	45.7	7	44.9	7	45.3	8	52.6	7	47.0	2	13.5			59	373.3
EQUIPMENT NONRECURRING																					0	0.0
ENGINEERING CHANGE ORDERS																					0	0.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER: CCM																					0	0.0
OTHER																					0	0.0
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
INSTALL COST		10.6				10.1		3.3		4.7		7.3		9.8		9.9		11.0		13.9		80.6
TOTAL PROCUREMENT	16	99.3	0	0.0	5	45.7	7	49.0	7	49.6	7	52.6	8	62.4	7	56.9	2	24.5	0.0	13.9	59	453.9

CLASSIFICATION: UNCLASSIFIED Feb 2006 INDIVIDUAL MODIFICATION (Continued) P3A (Continued) MODELS OF SYSTEMS AFFECTED: AN/BLQ-10 SSN ES Backfit Sys. MODIFICATION TITLE: AN/BLQ-10(V)2/3/4 ML015 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months CONTRACT DATES: FY 2004: Jan-05 FY 2005: Jan-05 FY 2006: Jun-06 FY 2007: Apr-07 DELIVERY DATE: FY 2004: Jul-06 FY 2005: Jul-06 FY 2006: Dec-07 FY 2007: Oct-08 (\$ in Millions) Cost: PY FY FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete TOTAL Qty \$ Qty Qty Qty Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ \$ Qty \$ PRIOR YEARS 10.6 10.1 3.3 16 24.0 0 0.0 FY 2005 EQUIPMENT 4.7 1.2 5.9 FY 2006 EQUIPMENT 6.1 2.5 8.6 7 **FY 2007 EQUIPMENT** 7.3 1.4 7 8.7 FY 2008 EQUIPMENT 8.5 7 9.9 1.4 FY 2009 EQUIPMENT 9.6 1.4 11.0 FY 2010 EQUIPMENT 7 9.7 9.7 FY 2011 EQUIPMENT 2.8 2 2.8 0.0 0 0.0 0 TO COMPLETE 0 0.0 INSTALLATION SCHEDULE: FY 2004 FY FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TC & Prior 3 2 3 **TOTAL** 3 3 3 0 0 2 2 0 2 2 2 0 0 3 2 2 2 2 2 2 10 In 0 0 59 2 2 2 0 2 2 Out 0 0 0 0 0 2 2 0 3 3 0 10 59

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CLASSIFICATION:	UNCLASSIFIED	February 2006
P3A	INDIVIDUAL MODIFICATION	

MODELS OF SYSTEM AFFECTED:	AN/BLQ-10 SSN ES Backfit Sv: TYPE MODIFICATION:	Shipalt	MODIFICATION TITLE:	SIGINT Carry-on Equip Racks
	ML017			

DESCRIPTION/JUSTIFICATION:

Provides permanent infrastructure (racks, wiring harnesses, cooling capacity) for SSN SIGINT special operations carry-on equipment. Enables efficient carry-on equipment installation/de-installation associated with deployment, resulting in significant cost savings and less wear/tear on ship & crew.

	FY 20	04 & Prior		FY_	FY	2005	FY	2006	FY	2007	FY	2008	<u>F`</u>	Y 2009	FY	2010		2011		<u>TC</u>		TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																					0	0.0
EQUIPMENT	4	1.0																			4	1.0
EQUIPMENT NONRECURRING																					0	0.0
ENGINEERING CHANGE ORDERS																					0	0.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER: CCM																					0	0.0
OTHER																					0	0.0
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
INSTALL COST						0.4														0.0		0.4
TOTAL PROCUREMENT	4	1.0	0	0.0	0	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0	0.0	4	1.4

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CLASSIFICATION: UNCLASSIFIED																						February 2006
P3A		INDIVIDUA	L MO	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:		LQ-10 SSN	ES B	ackfit Sy	<u>«</u> TYPI	E MODIF	FICAT	ION:	Shipa	lt					MOD	IFICATI	ON TI	TLE:	Infor	mation Ass	surance (IA)	/Solaris
DESCRIPTION/JUSTIFICATION:	ML01	7																				
Enables SSN to coordinate with other frien	dly SI	GINT interce	ept sy	stems to	accur	ately det	termin	e geoloc	ation o	f threat e	mitter	S.										
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	ENT MILES	TONE	S:																		
	FY 20	004 & Prior		FY	FY	2005	F۱	/ 2006	FY	2007	FY	2008	F۱	Y 2009	FY	2010	F١	<u> 2011</u>		<u>TC</u>	T	OTAL
	QTY			\$				\$				\$				\$		\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																					0	0.0
EQUIPMENT	4	0.9			10	2.3															14	3.2
EQUIPMENT NONRECURRING																					0	0.0
ENGINEERING CHANGE ORDERS																					0	0.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER: CCM																					0	0.0
OTHER: AN/BLQ-10 SHIPALT COMPONENT					1	0.2															1	0.2
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0

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INSTALL COST

TOTAL PROCUREMENT

17

5.1

ITEM

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			BU	DGET ITEM	JUSTIFICA	TION SHEET	1				DATE:	
					P-40						FEBI	RUARY 2006
APPROPRIATION/BU	JDGET ACT	IVITY		P-1 ITEM N	OMENCLAT	URE						
OTHER PROCUREM	ENT, NAVY			BLI: 2605 - A	Advanced Co	ombat Directi	on System (A	ACDS)				
BA-2: COMMUNICAT	ΓΙΟΝS & ELI	ECTRO	VICS EQ	Previously: I	NAVY TACTI	CAL DATA S	SYSTEMS (N	TDS)				
Program Element fo	r Code B Ite	ms:		Other Relat	ed Program	Elements						
_												
	FY 2003	ID									То	Total
	and	Code	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Program
QUANTITY	n/a	Α	0	0	0	0	0	0	0	0	0	\$0.0
COST (\$M)	\$65.9		\$12.0	\$12.6	\$8.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$99.0
Initial Spares (\$M)												
ITEM DESCRIPTION	/ II ICTICIC A	TION:		•	•	•	•	•		•	-	

ITEM DESCRIPTION/JUSTIFICATION:

The Navy Tactical Data System Program provides hardware for the Advanced Combat Direction System (ACDS) to replace obsolescent equipment and components for system sustainability. ACDS is a general purpose Combat Direction System (CDS) in major warships, permitting rapid integration of ship sensor information, analysis and display of tactical information, and designation of weapon systems to force threats. ACDS consists of three major subsystems, the Data Processing, Data Display and Data Link Subsystems. Data Processing and Data Display Subsystems are assigned to the Program Executive Office, Integrated Warfare Systems and the Data Links are assigned to the Space and Naval Warfare Systems Command. The ACDS is an upgrade to the NTDS Data Processing and Data Display subsystems and associated computer programs and documentation.

FY05 Funds are for:

(LUCA1) Fleet Peripheral Equipment Replacement - Procure/install AN/UYQ-70(V) peripheral emulators to replace existing maintenance-intensive, legacy peripherals. (LUCA2) SSDS/ACDS Shore Site Upgrades - Funding is for the procurement of AN/UYQ-70(V) display emulator systems/equipment and for upgrade of existing display emulator systems/equipment for shore sites.

(LUCA3) LHA Q-70(V) Display System Upgrade - Procure/install COTS tech refresh components to complete the upgrade configuration of the CDSA DN LHA 2/4 lab and complete the COTS upgrade LHA I/3/5 lab, in support of these configurations.

FY06 Funds are for:

(LUCA1) Fleet Peripheral Equipment Replacement - Procure/install AN/UYQ-70(V) peripheral emulators to replace existing maintenance-intensive, legacy peripherals.

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(LUCA3) LHA Q-70(V) Display System Upgrade - Procure/install COTS tech refresh components to complete the upgrade configuration of the CDSA DN LHA 2/4 lab and complete the COTS upgrade LHA I/3/5 lab, in support of these configurations.

(LUCA4) Secure Voice System (SVS) for Carriers and Wallops Island - Procure/nstall UYQ-70 Secure Voice System (SVS) for the Wallops Island share based facility to evaluate potential use on Aircraft Carriers.

CLASSIFICATION:

	WEAPONS SYSTEMS CO P-5	OST ANAL	YSIS											DATE: FEBRUAR	Y 2006
OTHER	RIATION/BUDGET ACTIVITY PROCUREMENT, NAVY OMMUNICATIONS & ELECTRONICS EQ		P-1 ITEM NOM ADVANCED O PREVIOUSLY	COMBAT DIR : NAVY TAC	RECTION CTICAL D	ATA SY	STEMS	S (NTDS)	BLI 260	500				SUBHEAD A2LU	
0007	ELEMENT OF COOT		TOTAL COS	T IN THOUS	SANDS	OF DO	LLARS				FV 0000			EV 0007	
COST	ELEMENT OF COST	ID Code	FY 2004 and Prior					FY 2005			FY 2006			FY 2007	
			Total Cost				Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
	SPONSOR: N76		77.9												
LUCA1	Fleet Peripheral Equipment Replacement	А							3,400			1,700			
LUCA2	SSDS/ACDS Shore Site Upgrades	Α							6,713			2,550			
LUCA3	LHA Q-70(V) Display System Upgrade	Α							2,500			2,550			
LUCA4	Secure Voice System (SVS) For Carriers and Wallops Island	A										1,700			
			77.9						12,613			8,500			0

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CLASSIFICATION:

					T		FEBRUARY 2006			
PROPRIATION/BUDGE					C. P-1 ITEM NO		SUBHEAD			
R PROCUREMENT, NA		o FOLUDIAE	N.T			MBAT DIRECTION SYSTEM (ACDS)				
COMMUNICATION AND	J ELECTRONIC:	S EQUIPME	IN I	T	CONTRACT	NAVY TACTICAL DATA SYSTEM (NTDS) BLI 26	DATE OF	A2LU DAT		
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	SPECS AVAILABLE NOW	REVISI AVAILA
EV 0005		(000)								
FY 2005										
LUCA1		2,450 950 3,400	NAVSEA NAVSEA	(R1) (R1)	FFP N/A	Lockheed Martin Bethesda, MD CDSA, Dam Neck, VA Beach, VA	2/05 N/A	12/05 N/A	Yes N/A	
LUCA2		4,201 837 1,625 50 6,713	NAVSEA NAVSEA NAVSEA NAVSEA	(R1) (R1) (R1) (R1)	FFP N/A FFP N/A	Lockheed Martin Bethesda, MD CDSA, Dam Neck, VA Beach, VA DRS Technoligics, Parsippany, NJ Naval Surface Warface Center, Indian Head, Md	1/05 N/A 2/05 N/A	2/06 N/A 1/06 N/A	Yes N/A Yes N/A	
LUCA3		2,050 450 2,500	NAVSEA NAVSEA	(R1) (R1)	FFP N/A	DRS Technoligics, Parsippany, NJ CDSA, Dam Neck, VA Beach, VA	2/05 N/A	1/06 N/A	Yes N/A	
FY 2006		·								
LUCA1		1,050 650 1,700	NAVSEA NAVSEA	(R1) (R1)	FFP N/A	Lockheed Martin Bethesda, MD CDSA, Dam Neck, VA Beach, VA	5/06 N/A	2/07 N/A	Yes N/A	
LUCA2		1,270 850 330 100 2,550	NAVSEA NAVSEA NAVSEA NAVSEA	(R1) (R1) (R1) (R1)	FFP FFP N/A N/A	Lockheed Martin Bethesda, MD DRS Technoligics, Parsippany, NJ CDSA, Dam Neck, VA Beach, VA NSWC, Dahlgren, VA	5/06 5/06 N/A N/A	2/07 12/06 N/A N/A	Yes Yes N/A N/A	
LUCA3		2,100 450 2,550	NAVSEA NAVSEA	(R1) (R1)	FFP N/A	DRS Technoligics, Parsippany, NJ CDSA, Dam Neck, VA Beach, VA	5/06 N/A	12/06 N/A	Yes N/A	
LUCA4 VS for Carriers & W.I.		1,000	NAVSEA	(R1)	FFP	Lockheed Martin Bethesda, MD	5/06	2/07	No	
. 2 . 2. 2 dame. 0 da		350 350 1,700	NAVSEA NAVSEA	(R1) (R1)	FFP N/A	DRS Technoligics, Parsippany, NJ NSWC, Dahlgren, VA	5/06 N/A	12/06 N/A	No N/A	

Remarks:

(1) Any O/Ys Acquisitions will be competitively awarded. Multiple Awards anticipated.

CLASSIFICATION:

			BUDGET IT	EM JUSTIFIC	DATE:							
				P-40	February 2006							
APPROPRIATION/B	UDGET ACTIVITY	Y			P-1 ITEM NOMENCLATURE							
OTHER PROCUE	REMENT, NAV	Y/BA-2			Cooperative Engagement Capability (CEC)/260600							
Program Element for	r Code B Items:				Other Related Program Elements							
0603755N (FY 19	994-97); 06036	58N (FY	1998-2011)				N/A					
-	2004 and	ID	-							То		
	Prior	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total	
QUANTITY	33		3	2	3	3	5	3	2	24	78	
COST												
(In Millions)	\$463.3		\$67.1	\$20.5	\$22.5	\$32.5	\$37.8	\$31.8	\$27.5	\$239.6	\$942.6	
SPARES COST												
(In Millions)	\$20.2		\$2.9	\$2.0	\$1.9	\$2.7	\$1.9	\$2.1	\$1.0	Cont.	Cont.	

- A. (U) Mission Description and Budget Item Justification: Cooperative Engagement Capability (CEC) significantly improves Battle Force Anti-Air Warfare (AAW) capability by coordinating all Battle Force AAW sensors into a single, real-time, composite track picture capable of fire control quality. CEC distributes sensor data from each ship and aircraft, or cooperating unit (CU), to all other CUs in the battle force through a real-time, line of sight, high data rate sensor and engagement data distribution network. CEC is highly resistant to jamming and provides accurate gridlocking between CUs. Each CU independently employs high capacity, parallel processing and advanced algorithms to combine all distributed sensor data into a fire control quality track picture which is the same for all CUs. CEC data is presented as a superset of the best AAW sensor capabilities from each CU, all of which are integrated into a single input to each CU's combat weapons system. CEC significantly improve our Battle Force defense in depth, including both local area and ship defense capabilities against current and future AAW threats. Moreover, CEC provides critical connectivity and integration of over-land air defense systems capable of countering emerging air threats, including land attack cruise missiles, in a complex littoral environment.
- (U) CEC consists of the Data Distribution System (DDS), the Cooperative Engagement Processor (CEP), and Combat System modifications. The DDS encodes and distributes ownship sensor and engagement data and is a high capacity, jam resistant, directive system providing a precision gridlocking and high throughput of data. The CEP is a high capacity distributed processor that is able to process force levels of data in near real-time. This data is passed to the ship's combat system as high quality data for which the ship can cue its onboard sensors or use the data to engage targets without actually tracking them. The Navy has begun implementation of a Pre-Planned Product Improvement (P3I) approach to modify the current equipment to meet reduced size, weight, cost, power and cooling objectives. This P3I approach also supports continuity for interoperability improvements and program protection, as well as supporting open architecture initiatives, comms independence, JTRS compliancy, and Global Information Grid (GIG) horizontal fusion initiatives. P3I will provide hardware which complies with Category 3 Open Architecture Core Environment (OACE) standards with rehosted existing software, which will be fielded fleet-wide to allow affordable replacement of obsolete computing system components and eliminate dependencies on "closed" equipment, operating systems, and middleware.

CEC is planned for shipboard installations at various Naval and commercial shippards aboard CG, DDG, CV/CVN, LHD, DD(X), LCS, and LHA ship classes during scheduled ship availability periods and at land based test sites (LBTS).

CEC was approved for entry into Engineering and Manufacturing Development (E&MD) in May 1995. Eleven (11) Advanced Development Models (ADM) and Engineering Development Models (EDM), and eleven (11) Pre-Production Units (PPU) were purchased under the development contract. Also, one (1) Pre-Planned Production (P3I) LBTS system was procured in FY05 under the Design Agent/Engineering Services contract.

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System							DATE: February 2006		
APPROPRIATION/BUDGET ACTIVITY						ID Code P-1 ITEM NOMENCLATURE/SUBHEAD							i corua	y 2000	
OTHER PROCUREMENT, NAVY/BA-2						B Cooperative Engagement Capability (CEC)/A2UC BLI:						JC BLI:	260600		
	,		TOTAL COST IN THOUSANDS OF DOLLARS												
COST	ELEMENT OF COST	ID Code					FY 2006					FY 2007			
CODE		Code	Prior Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
UCCA1	Congressional Add for PAAA Backfit Kits	В		4	2,500	10,000	2	2,125	4,250						
UC001	Cooperative Engagement Transmission Processing Set (CETPS) (AN/USG-2/2A)	В	288,603	3	8,152	24,455	2	4,300	8,600	3	4,390	13,170			
UC002	AN/UYQ-70 Display	А	21,494												
UC830	Production Engr. Support	А	43,511			6,258						2,308			
UC004	ECP/Kit Procurement	Α	40,890			13,647			1,120			2,360			
UC005	Non-recurring Depot Cost		4,500												
UC006	Visual Interactive Simulated Training Application (VISTA) Training		700												
UC007	CETPS (AN/USG-3) (Airborne)	В	0												
UC008	Supply Support		6,094												
UC51N UC61N	INSTALLATION: FMP Non-FMP		43,247 14,291			12,707			6,537			4,664			
	46, JUN 86		463,330			67,067			20,507			22,502 SIFICATION:			

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CLASSIFICATION:

BUDGET PROCURE	MENT HISTO	RY AND F	PLANNING EXHIBIT	(P-5A)		Weapon System	A. DATE February 2006			
B. APPROPRIATION/BUDGE	T ACTIVITY				C. P-1 ITEM NO	MENCLATURE	•	SUBHEAD		
OTHER PROCUR	EMENT, N	AVY/BA-	2			ive Engagement Capabi			A2UC	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>FY 2005</u> AN/USG-2	3	8,152	Arlington, VA	Jul-04	FFP	Raytheon Sys. Co., St. Petersburg, FL	Jan-05	Jul-06	Yes	N/A
FY 2006 AN/USG-2A	2	4,300	Arlington, VA	Jul-05	FFP	Raytheon Sys. Co.,	Dec-05	Jun-07	Yes	N/A
FY 2007 AN/USG-2A	3	4,390	Arlington, VA	Jul-06	FFP	To Be Determined	Oct-06	Apr-08	Yes	N/A

CLASSIFICATION: UNCLASSIFIED February 2006

P3A	INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED: DESCRIPTION/JUSTIFICATION:	AN/USG-2 / AN/USG-2A TYPE MODIFICATION:	BGAAW Improvement	MODIFICATION TITLE: Cooperative	CETPS E Engagement Capability BLI 260600
Battle Group Anti-Air Warfare (AA	AW) Improvement			

M/S II (May 95) M/S III (2Q FY 2002) TDP AVAIL (Sep 98)

	EV 6	0004 8 Dries		/ 2005				/ 2007								. 2011		TO	TOT	Λ.Ι.
	QTY	2004 & Prior \$	QTY	<u>/ 2005</u> \$	QTY	<u>2006</u> \$	QTY	<u>Y 2007</u> ' \$	QTY	<u>2008</u> \$	QTY	<u>2009</u> \$	QTY	<u>2010</u> \$		<u>/ 2011</u> \$	QTY	<u>TC</u> \$	<u>TOTA</u> QTY	<u>4L</u> \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E	22	1810.5	1	99.6		99.6		53.4		50.5		53.7		58.0		55.2		Cont.	23	Cont.
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				0.0
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT (PAAA Backfit Kits)				10.0		4.3														14.3
EQUIPMENT (AN/USG-2)	33	288.6	3	24.5	2	8.6	3	13.2	3	13.4	5	22.9	3	14.0	2	9.5	24	129.3	78	524.0
EQUIPMENT (AN/USG-3)																				0.0
ENGINEERING CHANGE ORDERS																				0.0
SUPPLY SUPPORT		6.1																		6.1
TRAINING EQUIPMENT (AN/USG-2)																				0.0
SUPPORT EQ. (VISTA Trng)		0.7																		0.7
OTHER (N/R Depot Standup)		4.5																		4.5
OTHER (ECP/Kit Procurement)		40.9		13.6		1.1		2.4		6.2		6.0		5.8		4.9		27.5		108.5
OTHER (Production Engr. Support)		43.5		6.3				2.3		4.1		3.7		3.9		3.9		32.4		100.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST *	21	49.038	8	12.7	5	6.5	3	4.7	4	8.9	2	5.1	4	8.1	2	9.2	29	53.6	78	157.8
TOTAL PROCUREMENT		433.3		67.1		20.5		22.5		32.5		37.8		31.8		27.5		242.8		915.8

^{*} Includes FMP and Non-FMP P-1 SHOPPING LIST CLASSIFICATION: **UNCLASSIFIED**

ITEM NO. 046 PAGE NO. 4

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

^{**} PAAA Backfit Kits procured in FY05 and FY06 are not complete AN/USG-2/3 systems, and therefore are not included in the total system quantity.

P-1 SHOPPING LIST

INDIVIDUAL MODIFICATION (Continued)

ITEM NO. 046

P3A (Continued)

MODELS OF STSTEMS AF	FECTE	:D: Al	W/U3G	-2 / USG-2A		_ WODIF	ICATIC	ON IIILE:		CETPS		Cooperative	=ngaç	gement	Сарав	iiily BL	1 200000						
INSTALLATION INFORMAT																							
ADMINISTRATIVE LEADTIN	ME:	12	Month	S	•	PRODUCTI	ON LE	ADTIME:		18 Mont	hs												
CONTRACT DATES:		FY 2005	Janı	uary 2005	_	FY 2006		October 2005	5			FY 200	7	С	ctober	2006							
DELIVERY DATE:		FY 2005	July	2006		FY 2006		April 2007				FY 200	7	Α	pril 200	8							
										(\$ in Millions)													
Cost:	Pri	or Years		FY 2005	F	FY 2006		FY 2007		FY 2008		FY 2009		FY 201	10	F	Y 2011	To C	omplete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	ţ	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS	21	49.0	8	10.1	2	2.2	2	2.7	7											33	64.002		
FY 2005 EQUIPMENT			AP	2.6	3	3.3														3	5.907		
FY 2006 EQUIPMENT					AP	1.0	1	1.5	5 1	1.5										2	4.037		
FY 2007 EQUIPMENT							AP	0.5	3	4.5										3	5.000		
FY 2008 EQUIPMENT									AP	2.4	2	3.1	1		2.2					3	7.679		
FY 2009 EQUIPMENT									AP	0.5	AP	2.0	3		4.4	2	6.4			5	13.300		
FY 2010 EQUIPMENT													AP		1.5			3	6.2	3	7.700		
FY 2011 EQUIPMENT																AP	2.8	2	3.0	2	5.800		
TO COMPLETE																		24	44.4	24	44.386		
INSTALLATION SCHEDU	JLE:																						
FY 2004		FY 2005		FY 2	006		FY:	2007		FY 2008		FY 20	009			FY 20	10		FY 2011			TC	TOTAL
& Prior	1	2 3	4	1 2	3	4 1	2	3 4	1	2 3	4	1 2	3	4	1	2	3 4	1	2 3	4			L
In 21	1	2 3	2	2 1	1	1 1	0	1 1	0	0 2	2	0 0	1	1	0	1	1 2	0	0 1	1		29	78
Out 21	1	2 3	2	2 1	1	1 1	0	1 1	0	0 2	2	0 0	1	1	0	1	1 2	0	0 1	1		29	78

PAGE NO. 5 CLASSIFICATION: UNCLASSIFIED

P-3A

					DATE				February 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIP	P-1 ITEM NOMEN Naval Command a		s (NCCS) 2608		1			SUBHEAD 52JG	
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To COMP	TOTAL
QUANTITY									
COST (in millions)	61.7	85.3	52.5	83.4	92.3	120.8	116.1	CONT	CONT

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:

Naval Command and Control Systems (NCCS):

NCCS includes all of the product lines within BLI 2608: Global Command and Control System- Maritime (GCCS-M), the Navy fielded portion of GCCS-Joint, Trusted Information Systems (TIS) - Joint Cross Domain Exchange (JCDX) (formerly known as OSIS Evolutionary Development (OED), Shipboard Video Distribution System (SVDS), the Navy fielded portion of the Theater Battle Management Core System (TBMCS). GCCS-M is further delineated by Afloat, Ashore and Tactical/Mobile platforms.

GCCS-M (Overall Description):

Global Command and Control System-Maritime (GCCS-M) is the Navy's fielded Command and Control system, a key component of the FORCEnet Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) strategy and is the Navy's tactical implementation of the Joint Services Global Command and Control System (GCCS-J). GCCS-M has aggressively pursued an Evolutionary Acquisition strategy in rapidly developing and fielding new Command, Control, Computers and Intelligence (C3I) capabilities for Naval users. GCCS-M includes migration to Defense Information Systems Agency's (DISA's) Defense Information Infrastructure (DII) Common Operating Environment (COE), incorporation of Fleet requirements for merging tactical and non-tactical networks, support for the Network Centric Warfare initiative and utilization of personal computer (PC), World Wide Web and other commercial-off-the-shelf (COTS) Information Technology. System upgrades are required to support the evolutionary nature of the GCCS-M software releases in order to meet Fleet / mission requirements. GCCS-M was designated an Acquisition Category (ACAT) IAC program on 30 March

JG010: GCCS-M Afloat provides Tactical C3I systems tailored to meet platform missions and functions to ensure joint interoperability among Numbered Fleet Commanders (NFC), Commander, Joint Task Force (CJTF), Joint Force Air Component Commander (JFACC), Officer in Tactical Command (OTC), Composite Warfare Commander (SWC), Commander Amphibious Task Forces (CATF), Commander, Landing Forces (CLF) and Commanding Officer/Tactical Action Officer (CO/TAO). GCCS-M Afloat provides both General Service (GENSER) and Sensitive Compartmented Information (SCI) source information management systems which receive, process, correlate, fuse, assess, and display the readiness and disposition of own, neutral, and potentially hostile forces together with Electronic Warfare (EW) resource and environmental information. GCCS-M Afloat provides tactical commanders with an accurate, reliable and survivable Common Operational Picture (COP) which includes complete all-source information management, display and dissemination, rapid access to organic/theater/national intelligence and databases, and multi-source data fusion and imagery exploitation. The GCCS-M Afloat provides a Radiant Mercury capability - a tool for the automated sanitizing, downgrading, and translation of formatted message traffic from GCCS-M SCI to GCCS-M GENSER.

GCCS-M Afloat provides C3I capability to 27 Force Level Ships (i.e., CV/CVN, LCC, LHA, LHD), 169 Unit Level Ships (i.e., CG, DD/DDG, FFG, MCM, LPD/LSD), 64 Submarines (i.e., SSN/SSBN), the Software Support Activity (SSA), and the Inservice Engineering Activity (ISEA). Force Level ships receive a GCCS-M GENSER system (Servers and PC Workstations) and a GCCS-M SCI system (Servers and PC Workstations). Unit Level ships receive a GCCS-M GENSER system (Servers and PC Workstations). Submarines receive a GCCS-M GENSER system (Servers and PC Workstations) and a GCCS-M SCI system (Servers and PC Workstations) and a GCCS-M SCI system (Servers and PC Workstations).

<u>JG015:</u> Theater Battle Management Core System (TBMCS) provides interoperability with Joint and Combined forces for Joint strike planning and execution. TBMCS is required to plan and publish Air Tasking Orders in support of a Joint Forces Air Component Commander (JFACC) assigned by the theater Commander in Chief (CINC). TBMCS was fielded on all Force Level Ships (CV/CVN, LHA/LHD, LCC, AGF platforms) and selected shore sites to permit air wing interaction with theater planners for all airborne missions. Beginning in FY06, TBMCS will only be fielded on CV/CVN's, LCC's, AGF's and selected shore sites.

<u>JG016:</u> Shipboard Video Distribution System (SVDS) provides a system of briefing and display capabilities. SVDS is fielded on all force level platforms. It is used to provide commanders and staff watch standers with constantly updated situational awareness through display of the COP, and other Command, Control, Communications, Computers, Intelligence (C4I) information sources. It consists of video switches, video cameras, and large screen display surfaces connected with audio announcing systems in all tactical watch standing areas.

BUDGET ITEM JUSTIFICATION SHEET (Continued)	DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLAT	URE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT Naval Command and Co	atrol Systems (NCCS) 2608	52JG

<u>JG020:</u> GCCS-M Ashore provides evolutionary systems and ancillary equipment upgrades to support Chief of Naval Operations (CNO), Fleet Commanders, Combatant Commanders, Type Commanders, Force Anti-Submarine Warfare (ASW) Commanders, and Submarine Operating Authorities worldwide. GCCS-M Ashore provides systems that receive, process, display, maintain and/or assess unit characteristics, employment scheduling, material condition, combat readiness, war fighting capabilities, and positional information of own, allied, and hostile forces. GCCS-M Ashore provides the tools necessary for Fleet and Shore based commanders to execute plans, transmit tasking, and provide tactical information to subordinate forces.

<u>JG030</u>: **Trusted Information Systems (TIS)** Joint Cross Domain eXchange (JCDX) system. JCDX provides the core on-line, automated, near-real time, multi-level secure, information analysis, dissemination, and receipt capabilities that enable Combatant Commanders and Joint Task Force Commanders afloat and ashore to disseminate and receive critical operational and intelligence information with own forces and
Coalition/Allied forces via tactical and record communications circuits. JCDX provides evolutionary systems and ancillary equipment upgrades in support of two Joint Intelligence Centers (JICs) and the Office of Naval Intelligence (ONI). JCDX provides near-real-time all-source fusion, correlation, and analysis tools for the analysis of multi-source intelligence to produce comprehensive tactical threat warnings, decision making support, and support of Over-the-Horizon -Targeting.

<u>JG040</u>: GCCS (Joint) is a Department of Defense (DoD) Program of Record managed by the Defense Information Systems Agency (DISA). The GCCS-J system requirements, software release schedule, and system fielding plan are determined by DISA in coordination with the Joint Staff. Program Executive Office (PEO) C4I & Space is responsible for fielding GCCS-J systems at Navy-supported Commands that have validated Joint requirements. GCCS-J supports the Joint Staff and Combatant Commanders by providing C4I data processing capabilities, including status of forces and support requirements for use in national security decision making, force preparation and operational planning execution.

JG050: Tactical/Mobile provides evolutionary systems and ancillary equipment upgrades to support the Unified, Fleet, and Navy Component Commanders, the Maritime Sector, Theater, and the Naval Liaison Element Commanders (Ashore) with the capability to plan, direct and control the tactical operations of Joint and Naval Expeditionary Forces and other assigned units within their respective area of responsibility. These operations include littoral, open ocean, and over land all sensor (i.e. Electro Optical (EO), Infrared (IR), Inverse Synthetic Aperture Radar (ISAR), etc.) surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue, and special operations. Each TacMobile system has a command & control component and a communications, networks & mobility component. The Command and Control services are provided by GCCS-M and include core GCCS-M capabilities, analysis and correlation of diverse sensor information; data management support, command decision aids; access to rapid data communication, mission planning and evaluation; dissemination of ocean surveillance positional data and threat alerts to operational users ashore and afloat. The communications and mobility component provides communications interconnectivity between various joint and naval commands, as well as the components necessary to make the systems mobile and self-sustaining in operational environments. The Tactical/Mobile System includes the fixed site Tactical Support Centers (TSCs) or equivalent and the Mobile Operations Control Centers (MOCCs) or equivalent which is a mobile version of the TSC for contingency operations; and the scaleable and highly portable Joint Mobile Ashore Support Terminal (JMAST). TacMobile systems are undergoing a transformation from fixed sites to a more mobile, expeditionary Force to better support the Navy's surge requirements.

PROCUREMENT DATA:

The FY 05 Budget Procures: (a) GCCS-M Ashore Command Center equipment; (b) TIS upgrades; (c) GCCS (JOINT) Workstations, Servers, LAN hardware and software, communications equipment; (d) Tactical/Mobile C2 and communications, networks, & mobility upgrade equipment; (e) GCCS-M Afloat C3I systems and installation of equipment.

The FY 06 Budget Procures: (a) GCCS-M Ashore Command Center equipment; (b) TIS upgrades; (c) GCCS (JOINT) Workstations, Servers, LAN hardware and software, communications equipment; (d) Tactical/Mobile C2 and communications, networks & mobility upgrade equipment: (e) GCCS-M Afloat C3I systems and installation of equipment.

The FY 07 Budget Procures: (a) GCCS-M Ashore Command Center equipment; (b) TIS upgrades; (c) GCCS (JOINT) Workstations, Servers, LAN hardware and software, communications equipment; (d)

Tactical/Mobile C2 and communications, networks & mobility upgrade equipment; (e) GCCS-M Afloat C3I systems and installation of equipment.

												DATE		February-06	
	COST ANALYSIS														
APPROP	RIATION ACTIVITY		P-1 ITEM NOW	IENCI ATURE										SUBHEAD	
_	A-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT	Т	Naval Command		stems (NCCS) 2	608								52JG	
				•	,			TOTAL COST	IN THOUSANDS	OF DOLLA	RS				
			PYs					FY 2005			FY 2006			FY 2007	
COST		ID	TOTAL					UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST				QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
JG010	GCCS-M Afloat		79,992					100.15	13,574		400.07	13,609		400.50	13,169
	GCCS-M Afloat Unit Level	A	41,605				20	436.15	8,723	23 7	122.87	2,826	17	130.59	2,220
	GCCS-M Afloat Force Level	A	35,514				2	2,425.50	4,851	′	1,540.43	10,783	4	2,737.25	10,949
	GCCS-M Afloat Shore Site	Α	2,873												
JG015	Theater Battle Mgmt Core System (TBMCS)		13.408						4,626			2,774			2,920
	TBMCS Afloat Force Level	Α	11,040				10	412.10	4,121	5	452.00	2,260	4	466.75	1,867
	TBMCS Ashore Site	Α	2,368				5	101.00	505	6	85.67	514	6	175.50	1,053
			,												
JG016	Shipboard Video Distribution System (SVDS)		10,210						2,297			-			-
	Shipboard Video Distribution System	Α	10,210				2	1,148.50	2,297	-	0.00	-	-	0.00	-
JG020	GCCS-M Ashore		34,773						12,502			24,279			7,841
	GCCS-M Ashore	Α	34,773				24	520.92	12,502	43	564.63	24,279	23	340.91	7,841
JG030	Trusted Information Systems/JCDX	_	6,519						1,614	_		1,122	_		321
	TIS/JCDX	Α	6,519				4	403.50	1,614	3	374.00	1,122	2	160.50	321
JG040	GCCS (Joint) Support Equip		9,840						1,782			1,539			1,562
	GCCS (Joint) Support Equipment	Α	9.840				20	89.10	1.782	17	90.53	1,539	13	120.15	1,562
			0,010						.,		-	1,222			.,
JG050	Tactical/Mobile		45,175						9,604			10,912			5,559
	Upgrade Equipment TSC	Α	7,966									·			
	JMAST	Α	17,084												
	Command & Control (C2) Upgrades	Α	2,634				7	84.43	591	11	60.82	669			
	Communications & Mobility Equipment Upgrades	Α	17,491				16	563.31	9,013	15	682.87	10,243			
	C2, Networks, Comms & Mobility Equipment Upgrades	Α											12	463.25	5,559
JG555	Production Support (GCCS-M Afloat)		2,089												
	Sub Total Brassusament		202.000					+	4E 000			E4 225			24 272
	Sub Total Procurement		202,006						45,999			54,235			31,372

Remarks: 1. Unit Costs (except for Tactical Mobile) are based on the average cost of all the platforms or sites installed within a given FY. Unit cost variances are due to the diverse types of upgrade requirements per platform or site.

Exhibit P-5, Cost Analysis Unclassified

DD FORM 2446, JUN 86 P-1 Shopping List-Item No 47 - 3 Classification

^{2.} Beginning in FY06, SVDS will no longer be procured within this budget.

^{3.} Tactical/Mobile (TacMobile) Upgrades referred to previously as both Tactical/Mobile Command & Control (C2) Upgrades and Tactical/Mobile Communications & Mobility (C&M) Upgrades. The TacMobile C2 component was reported separately in previous budgets due to the relationship to the GCCS-M ACAT 1 program. Resulting from TacMobile's designation as an ACAT 3 program, the C2 component will no longer be reported separately.

	COST ANALYSIS										DATE		February 2006	
	TION ACTIVITY OMMUNICATIONS AND ELECTRONIC EQUIPMEN	T	P-1 ITEM NON Naval Command		S) 2608 TOTAL COST	IN THOUSA	NDS OF DOLL	ADC				SUBHEAD 52JG		
			PYs		I I I I I I I I I I I I I I I I I I I	T THOUSAI	FY 2005			FY 2006			FY 2007	
COST		ID	TOTAL				UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST			QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
JG777	INSTALLATION		114,538					15,691			31,065			21,136
	Non FMP GCCS-M Afloat TBMCS Ashore GCCS-M Ashore TIS/JCDX GCCS (Joint) Support Equipment		24,629 2,135 582 8,707 361 3,241					3,893 - 189 2,332 79 206			7,731 - 90 5,375 624 414			1,961 - 226 762 251 426
	Tactical Mobile (TSC & JMAST)		6,684					-			-			-
	Tactical Mobile C2 Tactical Mobile Communications & Mobility Tactical Mobile C2, Networks, Comms & Mobility		349 2,570					1,087			1,228			296
	FMP GCCS-M Afloat DSA TBMCS Afloat DSA SVDS DSA		89,909 66,515 4,300 7,286 1,271 9,996 541					11,798 3,086 2,566 2,884 580 2,506 176			23,334 17,121 3,731 2,250 232 -			19,176 11,902 5,131 1,814 329 -
	GRAND TOTAL		316,544					61,690			85,300			52,508
	DERF - GCCS-M Afloat		1,960											

DD FORM 2446, JUN 86

P-1 Shopping List-Item No 47 - 4

Exhibit P-5, Cost Analysis
Unclassified
Classification

PROCUREMENT HISTORY AND PLANNING

A. DATE
February 2006

	PROPRIATION/BUDGET ACTIVITY BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT		<u> </u>		C. P-1 ITEM NOI Naval Command a) 2608			SUBHEAD 52JG	
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
G010	GCCS-M Afloat Unit Level	05	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-04	Jan-05	20	436	YES	N/A
		06	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-05	Jan-06	23	123	YES	N/A
		07	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-06	Jan-07	17	131	YES	N/A
G010	GCCS-M Afloat Force Level	05	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-04	Jan-05	2	2,426	YES	N/A
		06	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-05	Jan-06	7	1,540	YES	N/A
		07	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-06	Jan-07	4	2,737	YES	N/A
G015	TBMCS Afloat Force Level	05	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-04	Jan-05	10	412	YES	N/A
		06	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-05	Jan-06	5	452	YES	N/A
		07	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-06	Jan-07	4	467	YES	N/A
G015	TBMCS Ashore	05	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-04	Jan-05	5	101	YES	N/A
		06	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-05	Jan-06	6	86	YES	N/A
		07	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-06	Jan-07	6	176	YES	N/A
G016	Shipboard Video Distribution System	05	SSC Charleston	wx	SPAWAR		Oct-04	Jan-05	2	1,149	YES	N/A
3020	GCCS-M Ashore	05	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-04	Jan-05	24	521	YES	N/A
		06	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-05	Jan-06	43	565	YES	N/A
		07	SSC Charleston/San Diego/GSA	WX/IP	SPAWAR		Oct-06	Jan-07	23	341	YES	N/A
3030	Trusted Information Systems -JCDX	05	Maxim San Diego	RC	NSMA		Dec-04	Feb-05	4	404	YES	N/A
		06	Maxim San Diego	RC	NSMA		Dec-05	Feb-06	3	374	YES	N/A
		07	Maxim San Diego	RC	NSMA		Nov-06	Jan-07	2	161	YES	N/A
3040	GCCS (Joint) Support Equipment	05	SSC Charleston/San Diego	WX	SPAWAR		Oct-04	Jan-05	20	89	YES	N/A
		06	SSC Charleston/San Diego	WX	SPAWAR		Oct-05	Jan-06	17	91	YES	N/A
		07	SSC Charleston/San Diego	WX	SPAWAR		Oct-06	Jan-07	13	120	YES	N/A
050	Tactical Mobile											
	Command & Control Upgrades	05	SSC Charleston	WX	SPAWAR		various	various	7	84	YES	N/A
	Communications & Mobility	05	SSC Charleston	WX	SPAWAR		various	various	16	563	YES	N/A
	Command & Control Upgrades	06	SSC Charleston	WX	SPAWAR		various	various	11	61	YES	N/A
	Communications & Mobility	06	SSC Charleston	WX	SPAWAR		various	various	15	683	YES	N/A
	C2, Networks, Comms & Mobility Upgrades	07	SSC Charleston	WX	SPAWAR		various	various	12	463	YES	N/A

D. REMARKS

Note: Space & Naval Warfare Systems Command Systems Center (SPAWARSYSCEN), San Diego, California and Charleston, South Carolina are integrating agents. There are multiple hardware contracts awarded under each cost code.

P-1 Shopping List-Item No 47 - 5

Exhibit P-5A, Procurement History and Planning Classification: Unclassified MODIFICATION TITLE: COST CODE

GCCS-M Afloat Unit Level

JG010

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

The GCCS-M Afloat Unit Level system is the tactical C3I system for the Carrier Strike Group (CSG)/Expeditionary Strike Group (ESG) Unit Level warfighting combatants and submarines and consists of both Servers and PC Workstations running on a Shipboard local Area Network (LAN) while providing the tactical commander with the Common Operational Picture (COP), automated decision aids and an integrated tactical shipboard intelligence system that utilize join to organic, non-organic (remote sources) and environmental information/intelligence in the decision making and warfighting process. It also provides tactical commanders with an accurate, reliable and survivable COP which includes complete all-source information management, display and dissemination, rapid access to organic/theater/national intelligence and databases, and multi-source data fusion and imagery exploitation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

THANGIALT LAN. (\$ IIT IIIIII0113)	_		_				_		_		_		_		_		_	_	_	
		PYs .	_	<u>Y 05</u>		<u>Y 06</u>		Y 07		<u>/ 08</u>	_	Y 09		<u>′ 10</u>		<u>Y 11</u>	<u> </u>			ital
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment	382	41.605	20	8.723	23	2.826	17	2.220	63	14.671	60	12.405	56	19.389	49	13.035	CONT	CONT	CONT	CONT
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Production Support		0.485																		
Other (DSA)		3.861		1.509		2.280		3.818		3.924		4.359		5.297		5.117	CONT	CONT	CONT	CONT
Interim Contractor Support																				
Installation of Hardware	382	37.184	20	2.402	23	10.357	17	6.241	63	16.706	60	12.752	56	19.102	49	18.253	CONT	CONT	670	123.00
PRIOR YR EQUIP	382	37.184																	382	37.18
FY 04 EQUIP																			0	0.00
FY 05 EQUIP			20	2.402															20	2.40
FY 06 EQUIP					23	10.357													23	10.36
FY 07 EQUIP							17	6.241											17	6.24
FY 08 EQUIP									63	16.706									63	16.71
FY 09 EQUIP											60	12.752							60	12.75
FY 10 EQUIP													56	19.102					56	19.10
FY 11 EQUIP															49	18.253			49	18.25
FY TC EQUIP																	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST		41.045		3.911		12.637		10.059		20.630		17.111		24.399		23.370		CONT		CONT
TOTAL PROCUREMENT COST		83.135		12.634		15.463		12.279		35.301		29.516		43.788		36.405		CONT		CONT
METHOD OF IMPLEMENTATION:								ADMINIS	RATIVE	_EADTIME:		1 mo.			PRODUC	CTION LEAD	JIIME:		3 mos.	
	CONTRA	ACT DATES	:	FY 2004:		Oct-03		FY 2005:		Oct-04		FY 2006:		Oct-05		FY 2007:		Oct-06		
	DELIVER	RY DATES:		FY 2004:		Jan-04		FY 2005:		Jan-05		FY 2006:		Jan-06		FY 2007:		Jan-07		
					<u>F</u>	Y 06				FY	07				<u>F</u>	Y 08				
INSTALLATION SCHEDULE:	PYs	_		1	2	3	4	_	1	2	3	4		1	2	3	4			
INPUT	402	2			8	8	7			6	6	5			21	21	21			
OUTPUT	402	2			8	8	7			6	6	5			21	21	21			
					<u>F</u>	Y 09				FY	10				<u>F</u>	<u>Y 11</u>				
INSTALLATION SCHEDULE:				1	2	3	4	_	1	2	3	4		1	2	3	4	,	TC	TOTAL
INPUT					20	20	20			19	19	18			17	16	16		CONT	CONT
OUTPUT					20	20	20			19	19	18			17	16	16		CONT	CONT
OUTFUL					20	20	20			19	19	10			17	10	10		CONT	CONT

Notes/Comments: Quantities refer to Unit Level ships and submarines. GCCS-M will be installed on 233 Unit Level ships in the Fleet, which includes 64 submarines.

February 2006

MODIFICATION TITLE: COST CODE GCCS-M Afloat Force Level

JG010

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

The GCCS-M Afloat Force Level system is the core battle group/force commander's warfighting system and consists of both Servers and PC Workstations, color large screen displays, remote displays and switches running on a Shipboard LAN while providing the tactical commander with the COP, automated decision aids and an integrated tactical shipboard intelligence system that utilize joint organic, non-organic (remote sources) and environmental information/intelligence in the decision making and warfighting process. The Force Level system provides Tactical C3I systems tailored to meet platform missions and functions to ensure joint interoperability among various Fleet Commanders. It also provides both General Service (GENSER) and Sensitive Compartmented Information (SCI) source information management systems which receive, process, correlate, fuse, assess, and display the readiness and disposition of own, neutral, and potentially hostile forces together with Electronic Warfare (EW) resource and environmental information. Lastly, it provides tactical commanders with an accurate, reliable and survivable Common Operational Picture (COP) which includes complete all-source information management, display and dissemination, rapid access to organic / theater / national intelligence and databases, and multi-source data fusion and imagery exploitation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

	E	PYs	<u> </u>	Y 05	F	′ 0 <u>6</u>	F.	Y 07	<u>F</u>)	′ 08	F	Y 09	F	′ 10	F)	<u>/ 11</u>	I	C	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E							-								-					
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment	101	35.514	2	4.851	7	10.783	4	10.949	7	9.832	11	9.404	7	13.158	8	14.602	CONT	CONT	CONT	CONT
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Production Support		0.300																		
Other (DSA)		0.439		1.057		1.451		1.313		0.888		1.655		2.303		2.420	CONT	CONT	CONT	CONT
Interim Contractor Support																				
Installation of Hardware	101	29.331	2	0.684	7	6.764	4	5.661	7	5.569	11	7.547	7	7.777	8	9.769	CONT	CONT	147	73.10
PRIOR YR EQUIP	101	29.331																	101	29.33
FY 04 EQUIP			_																0	0.00
FY 05 EQUIP			2	0.684															2	0.68
FY 06 EQUIP					7	6.764													7	6.76
FY 07 EQUIP							4	5.661	_										4	5.66
FY 08 EQUIP									7	5.569									7	5.57
FY 09 EQUIP											11	7.547	_						11	7.55
FY 10 EQUIP													7	7.777		9.769			7 8	7.78 9.77
FY 11 EQUIP															8	9.769	CONT	CONT	-	-
FY TC EQUIP TOTAL INSTALLATION COST		29.770		1.741		8.215		6.974		6.457		9.202		10.080		12.189	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST	-	65.584		6.592		18.998		17.923		16.289		18.606		23.238		26.791		CONT		CONT
METHOD OF IMPLEMENTATION:		00.004		0.592		10.990			TD ATI\/I	LEADTIN	/E:	1 mo.			DBODI I	CTION LE	A DTIME:	CONT	3 mos.	CONT
WETHOD OF IMITEEMENTATION.								ADMINIO	IIIAIIVI	LLADIII	/IL.	1 1110.			I KODO	CHONLL	ADTIIVIL.		5 11103.	
	CONTR	ACT DATE	· C-	FY 2004:		Oct-03		FY 2005:		Oct-04		FY 2006:		Oct-05		FY 2007:		Oct-06		
	CONTIN	ACTUALL	.0.	1 1 2004.		OCI-03		1 1 2003.		OCI-04		1 1 2000.		OCI-03		1 1 2007.		OCI-00		
	DELIVE	RY DATES	3:	FY 2004:		Jan-04		FY 2005:		Jan-05		FY 2006:		Jan-06		FY 2007:		Jan-07		
					FY	06					FY 07				F	7 08				
INSTALLATION SCHEDULE:	PYs	_		1	2	3	4	_	1	2	3	4		1	2	3	4			
INPUT	103				2	3	2			1	1	2			2	3	2			
OUTPUT	103				2	3	2			1	1	2			2	3	2			
					FY					FY					_	<u>/ 11</u>				
INSTALLATION SCHEDULE:				1	2	3	4		11	2	3	4		1	2	3	4		TC	TOTAL
INPUT					4	3	4			2	3	2			3	3	2		CONT	CONT
					•	•	•			-	•	-			Ū	ŭ	-		30	30
OUTPUT					4	3	4			2	3	2			3	3	2		CONT	CONT

Notes/Comments: Quantities refer to Force Level ships. Currently, there are 27 Force Level ships in the Fleet.

MODIFICATION TITLE: COST CODE TBMCS Afloat JG015

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Supports acquisition of hardware and software for the Theater Battle Management Core System (TBMCS). This system is a suite of USAF software applications that support air and space operations. TBMCS provides US forces with the ability to plan and control air operations. All DoD air operations planners will use TBMCS to produce, generate, disseminate, and monitor execution of the Air Tasking Order (ATO), air defense plan, master air attack plan, target nomination list, joint integrated prioritize target list, candidate target list.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	<u>P</u>	<u>Ys</u>	<u>F</u>	Y 05	FY	06	<u>F</u>	Y 07	FY	08	E	Y 09	FY	10	FY	<u>/ 11</u>	<u>T</u>	<u>c</u>	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment	67	11.040	10	4.121	5	2.260	4	1.867	5	2.537	5	2.564	5	2.885	5	2.967	CONT	CONT	CONT	CONT
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Production Support		0.175																		
Other (DSA)		1.271		0.580		0.232		0.329		0.276		0.230		0.400		0.400	CONT	CONT	CONT	CONT
Interim Contractor Support																				
Installation of Hardware	67	7.286	10	2.884	5	2.250	4	1.814	5	2.535	5	2.709	5	2.683	5	2.771	CONT	CONT	106	24.93
PRIOR YR EQUIP	67	7.286																	67	7.29
FY 04 EQUIP																			0	0.00
FY 05 EQUIP			10	2.884															10	2.88
FY 06 EQUIP					5	2.250													5	2.25
FY 07 EQUIP							4	1.814											4	1.81
FY 08 EQUIP									5	2.535									5	2.54
FY 09 EQUIP											5	2.709							5	2.71
FY 10 EQUIP													5	2.683					5	2.68
FY 11 EQUIP															5	2.771			5	2.77
FY TC EQUIP																	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST		8.557		3.464		2.482		2.143		2.811		2.939		3.083		3.171		CONT		CONT
TOTAL PROCUREMENT COST		19.772		7.585		4.742		4.010		5.348		5.503		5.968		6.138		CONT		CONT
METHOD OF IMPLEMENTATION:								ADMINIS	TRATIVE	LEAD TI	ME:	1 mo.			PRODU	CTION LEA	AD TIME:		3 mos.	
	CONTRA	CT DATES	S:	FY 2004:		Oct-03		FY 2005:		Oct-04		FY 2006:		Oct-05		FY 2007:		Oct-06		
	DELIVER	Y DATES:		FY 2004:		Jan-04		FY 2005:		Jan-05		FY 2006:		Jan-06		FY 2007:		Jan-07		
	DELIVER	I DATE.		1 1 2004.		ouii o4		1 1 2000.		ouii oo		1 1 2000.		oun oo		1 1 2007.		oun or		
					FY	<u>′ 06</u>				FY	07				EY	/ 08				
INSTALLATION SCHEDULE:	PYs			1	2	3	4		1	2	3	4		1	2	3	4			
NDUT					•		1								•					
INPUT	77				2	2	1			2	2				2	2	1			
OUTPUT	77				2	2	1			2	2				2	2	1			
					-					EV	40				_	, , ,				
INOTALL ATION COLIFFILIE					_	<u>′ 09</u>				FY.						<u>/ 11</u>			то.	TOTAL
INSTALLATION SCHEDULE:				1	2	3	4		1	2	3	4		1	2	3	4		TC	TOTAL
INPUT					2	2	1			2	2	1			2	2	1		CONT	CONT
OUTPUT					2	2	1			2	2	1			2	2	1		CONT	CONT

Notes/Comments: Quantities refer to number of Force Level ships. The I/O through FY05 is 28. Beginning in FY06, the TBMCS I/O is 14.

February 2006

UNCLASSIFIED February 2006

MODIFICATION TITLE:

TBMCS Ashore JG015

COST CODE
MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

Supports acquisition of hardware and software for the Theater Battle Management Core System (TBMCS) shore sites.

This system is a suite of USAF software applications that support air and space operations. TBMCS provides US forces with the ability to plan and control air operations, including air and space control and air and missile defense. All DoD air operations planners will use TBMCS to produce, generate, disseminate, and monitor execution of the air defense plan.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	_		_		_		_				_		_		_		_	_	_	
		PYs		Y 05		<u>/ 06</u>		Y 07	FY O:			Y 09		10		<u>/ 11</u>	<u>I</u>			otal o
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment	12	2.368	5	0.505	6	0.514	6	1.053	6	0.647	6	0.647	6	0.470	6	0.483	CONT	CONT	CONT	CONT
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Production Support		0.050																		
Shore Pre-Installation Design								0.038		0.044		0.032		0.033		0.034	CONT	CONT	CONT	CONT
Interim Contractor Support																				
Installation of Hardware	12	0.582	5	0.189	6	0.090	6	0.188	6	0.108	6	0.145	6	0.096	6	0.098	CONT	CONT	53	1.50
PRIOR YR EQUIP	12	0.582																	12	0.58
FY 04 EQUIP																			0	0.00
FY 05 EQUIP			5	0.189															5	0.19
FY 06 EQUIP					6	0.090													6	0.09
FY 07 EQUIP							6	0.188											6	0.19
FY 08 EQUIP									6	0.108									6	0.11
FY 09 EQUIP											6	0.145							6	0.15
FY 10 EQUIP													6	0.096					6	0.10
FY 11 EQUIP															6	0.098			6	0.10
FY TC EQUIP																	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST		0.582		0.189		0.090		0.226		0.152		0.177		0.129		0.132		CONT		CONT
TOTAL PROCUREMENT COST		3.000		0.694		0.604		1.279		0.799		0.824		0.599		0.615		CONT		CONT
METHOD OF IMPLEMENTATION:		<u> </u>	•			<u> </u>		ADMINIS'	TRATIVE	LEAD TIN	ΛE:	1 mo.			PRODU	CTION LE	AD TIME:		3 mos.	
	CONTRA	ACT DATE	S:	FY 2004:		Oct-03		FY 2005:		Oct-04		FY 2006:		Oct-05		FY 2007:		Oct-06		
	DELIVE	RY DATES	S:	FY 2004:		Jan-04		FY 2005:		Jan-05		FY 2006:		Jan-06		FY 2007:		Jan-07		
						<u>/ 06</u>				FY					<u>F</u>	<u> </u>				
INSTALLATION SCHEDULE:	PY	_		1	2	3	4		1	2	3	4		1	2	3	4			
INPUT	17				2	2	2			2	2	2			2	2	2			
OUTPUT	17				2	2	2			2	2	2			2	2	2			
00.1.01	• • •				-	-	_			_	_	-			-	_	-			
					F	<u>/ 09</u>				FY	10				F	<u>Y 11</u>				
INSTALLATION SCHEDULE:				1	2	3	4		1	2	3	4		1	2	3	4		TC	TOTAL
INPUT					2	2	2			2	2	2			2	2	2		CONT	CONT

Notes/Comments: Quantities represent sites. Currently, there are 6 TBMCS shore sites.

MODIFICATION TITLE: Shipboard Video Distribution System (SVDS)

COST CODE .

 ${\tt MODELS\ OF\ SYSTEMS\ AFFECTED:}$

DESCRIPTION/JUSTIFICATION:

The Shipboard Video Distribution System upgrade for Force Level ships provides the ability to route video signals (up to 96 inputs and 96 outputs) throughout selected areas of the ship. The system will be upgraded to provide digital signal routing via the Shipboard LAN to configured command, control and mission planning spaces on force level combatants and off board ship via

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ In millions)		PY	-	ſ 05	-	06	EV	07	_	′ 08		/ 09	EV	10	_	/ 11	,	<u>rc</u>	т.	otal
	Qty	<u> </u>	Qtv	\$	Qty	<u>.06</u> \$	Qty	<u>07</u> \$	Qty	<u>00</u> \$	Qty	\$	Qty	<u>10</u> \$	Qty	\$	Qty	<u>s</u>	Qty	\$
RDT&E	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment	14	10.210	2	2.297	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	16	12.51
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment		0.475																		0.40
Production Support Other (DSA)		0.175 0.541		0.176		0.000		0.000		0.000		0.000		0.000		0.000	0	0.000	0	0.18 0.72
* *		0.541		0.176		0.000		0.000		0.000		0.000		0.000		0.000	U	0.000	U	0.72
Interim Contractor Support Installation of Hardware	14	9.996	2	2.506	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	16	12.50
PRIOR YR EQUIP	14	9.996		2.506	U	0.000	U	0.000	U	0.000	0	0.000	U	0.000	U	0.000	U	0.000	14	10.00
FY 04 EQUIP	14	3.330																	0	0.00
FY 05 EQUIP			2	2.506															2	2.51
FY 06 EQUIP			_	2.000	0	0.000													0	0.00
FY 07 EQUIP					-		0	0.000											0	0.00
FY 08 EQUIP									0	0.000									0	0.00
FY 09 EQUIP											0	0.000							0	0.00
FY 10 EQUIP													0	0.000					0	0.00
FY 11 EQUIP															0	0.000			0	0.00
FY TC EQUIP																	0	0.000	0	0.00
TOTAL INSTALLATION COST		10.537		2.682		0.000		0.000		0.000		0.000		0.000		0.000		0.000		13.22
TOTAL PROCUREMENT COST		20.922		4.979		0.000		0.000		0.000		0.000		0.000		0.000		0.000		25.90
METHOD OF IMPLEMENTATION:								ADMINIS	TRATIVE	LEADTIN	ΛE:	1 mo.			PRODU	CTION LE	ADTIME:		3 mos.	
	CONTR	ACT DATE	S:		FY 2004:		Oct-03			FY 2005:		Oct-04			FY 2006	:		FY 2007:		
	DELIVE	RY DATES	S:		FY 2004:		Jan-04			FY 2005:		Jan-05			FY 2006	:		FY 2007:		
					FY	<u>′ 06</u>				FY	07				FΥ	<u>/ 08</u>				
INSTALLATION SCHEDULE:	PY	_		1	2	3	4	_,	1	2	3	4		1	2	3	4	_		
INPUT	16																			
OUTPUT	16																			
						<u>′ 09</u>					10					<u>/ 11</u>				
INSTALLATION SCHEDULE:				1	2	3	4	-	11	2	3	4		1	2	3	4	-	TC	TOTAL
INPUT																			0	16
OUTPUT																			0	16

Notes/Comments: Quantities through FY05 refer to number of Force Level Ships. Currently, there are 28 Force Level Ships in the Fleet. Beginning in FY06, SVDS will no longer be procured within this budget.

UNCLASSIFIED

MODIFICATION TITLE:

GCCS-M Ashore

COST CODE
MODELS OF SYSTEMS AFFECTED:

JG020

DESCRIPTION/JUSTIFICATION:

MS AFFECTED: N/A

Provides evolutionary systems and ancillary equipment upgrades to support CNO, Combatant Commanders, Unified Commanders, Type Commanders, Force Anti-Submarine Warfare (ASW) Commanders, and Submarine Operating Authorities worldwide. GCCS-M Ashore provides a single system to receive, process, display, maintain and/or assess unit characteristics, employment scheduling, material condition, combat readiness, warfighting capabilities, and positional information of own, allied, and hostile forces. GCCS-M Ashore provides the tools necessary for Fleet and Shore based commanders to execute plans, transit tasking, and provide tactical information to subordinate forces. Offers distributed briefing capabilities among commands using video and large screen displays.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN. (\$ III IIIIIIIOIIS)		PYs	F	Y 05	F۱	7 06	F	Y 07	ΕY	7 08	F	Y 09	F\	Y 10	F'	Y 11	т	c	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring	201	34.773	24	12.502	43	24.279	23	7.841	35	14.166	35	16.622	37	21.507	38	20.261	CONT	CONT		CONT.
Engineering Change Orders Data Training Equipment Production Support Shore Pre-Installation Design Interim Contractor Support								0.591		0.620		0.651		0.723		0.779	CONT	CONT	CONT	CONT
Installation of Hardware PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP	201 201	8.707 8.707	24	2.332	43	5.375	23	0.171	35	2.562	35	3.738	37	4.735	38	3.856	CONT	CONT	436 201 0 24	31.48 8.71 0.00 2.33
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP					43	5.375	23	0.171	35	2.562	35	3.738	37	4.735	38	3.856			43 23 35 35 37 38	5.38 0.17 2.56 3.74 4.74 3.86
FY TC EQUIP																	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST		8.707		2.332		5.375		0.762		3.182		4.389		5.458		4.635		CONT		CONT
TOTAL PROCUREMENT COST		43.480		14.834		29.654		8.603		17.348		21.011		26.965		24.896		CONT		CONT
METHOD OF IMPLEMENTATION:									TRATIVE	LEAD TIN	ΛE:	1 mo.			PRODU	CTION LE			3 mos.	
		ACT DATE		FY 2004:		Oct-03		FY 2005:		Oct-04		FY 2006:		Oct-05		FY 2007:		Oct-06		
	DELIVE	RY DATES	i:	FY 2004:		Jan-04		FY 2005:		Jan-05		FY 2006:		Jan-06		FY 2007:		Jan-07		
INSTALLATION SCHEDULE:	PYs	_		1	<u>F)</u> 2	<u>7 06</u> 3	4		1	<u>FY</u> 2	<u>07</u> 3	4		1	<u>F</u> 2	Y 08 3	4			
INPUT	225				18	18	7			8	8	7			14	14	7			
OUTPUT	225				18	18	7			8	8	7			14	14	7			
INSTALLATION SCHEDULE:					<u>E)</u>	<u>/ 09</u>				FY	10				E	<u>Y 11</u>				
				1	2	3	4		1	2	3	4		1	2	3	4	-	TC	TOTAL
INPUT					14	14	7			16	16	5			16	16	6		CONT	CONT
OUTPUT					14	14	7			16	16	5			16	16	6		CONT	CONT
Notes/Comments: Quantities represent As	hora evet	ome uparae	led ner v	oor Curro	othy there	a ara 60 A	choro cu	etame ineta	llad at a	total of 36	Achora	citoc								

Notes/Comments: Quantities represent Ashore systems upgraded per year. Currently, there are 69 Ashore systems installed at a total of 36 Ashore sites.

February 2006

UNCLASSIFIED February 2006

MODIFICATION TITLE:

Trusted Information Systems

COST CODE
MODELS OF SYSTEMS AFFECTED:

JG030

DESCRIPTION/JUSTIFICATION:

Trusted Information Systems (TIS) Joint Cross Domain eXchange (JCDX) system provides for the analysis of intelligence information from multiple sources to produce a comprehensive report of foreign forces and potential hostile activity. In addition, it provides near-real-time all-source fusion, correlation and analysis tools, directly feeding automated reporting capabilities. TIS-JCDX

provides positional data and operational intelligence to commanders at all levels.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL FLAN. (\$ III IIIIIIOIIS)		PY	_	Y 05	E/	Y 06	F	Y 07	EV	08	F	Y 09	E/	/ 10	E	Y 11	т	C	To	tal
	Qty	<u>' </u>	Qty	\$ I	Qty	\$ I	Qty	\$ I	Qty	<u>s</u>	Qty	\$	Qty	\$	Qty	<u>' ' '</u> \$	Qty	<u> </u>	Qty	\$
RDT&E	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment - TIS JCDX	20	6.519	4	1.614	3	1.122	2	0.321	3	0.107	3	0.987	3	1.004	3	1.124	CONT	CONT	CONT	CONT
Equipment Nonrecurring	20	0.519	-	1.014	3	1.122	2	0.321	3	0.107	3	0.907	3	1.004	3	1.124	CONT	CONT	CONT	CONT
Engineering Change Orders																				
Data																				
Training Equipment																				
Production Support								0.054		0.050		0.040		0.040		0.400	CONT	CONT	CONT	CONT
Shore Pre-Installation Design								0.051		0.052		0.210		0.218		0.162	CONT	CONT	CONT	CONT
Interim Contractor Support			١.				_		_				_		_					
Installation of Hardware	20	0.361	4	0.079	3	0.624	2	0.200	3	0.050	3	0.969	3	1.020	3	1.014	CONT	CONT	41	4.32
PRIOR YR EQUIP	20	0.361																	20	0.36
FY 04 EQUIP			١.																0	0.00
FY 05 EQUIP			4	0.079															4	0.08
FY 06 EQUIP					3	0.624													3	0.62
FY 07 EQUIP							2	0.200											2	0.20
FY 08 EQUIP									3	0.050									3	0.05
FY 09 EQUIP											3	0.969							3	0.97
FY 10 EQUIP													3	1.020					3	1.02
FY 11 EQUIP															3	1.014			3	1.01
FY TC EQUIP																	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST		0.361		0.079		0.624		0.251		0.102		1.179		1.238		1.176		CONT		CONT
TOTAL PROCUREMENT COST		6.880		1.693		1.746		0.572		0.209	_	2.166		2.242		2.300		CONT		CONT
METHOD OF IMPLEMENTATION:								ADMINIS	TRATIVE	LEAD TIM	ΛE:	2 mos.			PRODU	CTION LE	AD TIME:		3 mos.	
	CONTR	ACT DATE	S:	FY 2004:		Jan-04		FY 2005:		Dec-04		FY 2006:		Dec-05		FY 2007:		Nov-06		
	5			=,,,,,,,,,,				=1/.000=				=,,,,,,								
	DELIVE	RY DATES	S:	FY 2004:		Mar-04		FY 2005:		Feb-05		FY 2006:		Feb-06		FY 2007:		Jan-07		
					F	Y 06				FY	07				F۱	′ 08				
INSTALLATION SCHEDULE:	PY			1	2	3	4		1	2	3	4		1	2	3	4			
		_																		
INPUT	24				2	1				1	1				1	1	1			
0.170.17																				
OUTPUT	24					2	1			1	1				1	1	1			
					FY	<u>Y 09</u>				FY	10				F۱	<u>′ 11</u>				
INSTALLATION SCHEDULE:				1	2	3	4		1	2	3	4		1	2	3	4		TC	TOTAL
				<u> </u>					•			· ·					<u>-</u>			
INPUT					1	1	1			1	1	1			1	1	1		CONT	CONT
-					•	•	•			•		•			•	•	•			
OUTPUT					1	1	1			1	1	1			1	1	1		CONT	CONT

Notes/Comments: Quantities represent sites. The equipment of each site is various.

MODIFICATION TITLE: COST CODE Global Command and Control System (GCCS) - Joint

JG040

 ${\tt MODELS\ OF\ SYSTEMS\ AFFECTED:}$

DESCRIPTION/JUSTIFICATION:

GCCS-Joint is an operational multi-service/agency program. GCCS-Joint supports the Joint Staff and Combatant Commanders by providing Command, Control and Communication (C3) data processing capabilities including status of forces and support requirements for use in security decision making, force preparation and operational planning execution. Equipment is scheduled

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)		21/	_	V 05		. 00	_	V 07	-	. 00	_	V 00		. 40	_		-	-0		
	Qty	<u> </u>	I Qtv	<u>Y 05</u> \$	Qtv	<u>/ 06</u> \$	L Qtv	<u>Y 07</u> \$	Qtv	<u>′ 08</u> \$	Qty	Y 09 \$	Qty	<u>10</u> \$	Qty	<u>Y 11</u> \$	Qty	<u>C</u> \$	Qty	otal \$
RDT&E PROCUREMENT: Kit Quantity	Qty	Ţ.	Qiy	Φ	Qly	9	Qiy	, a	Qiy	Ψ	Qiy	Þ	Qiy	.	Qiy	φ	Qly	<u> </u>	Qiy	•
Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	101	9.840	20	1.782	17	1.539	13	1.562	13	1.603	13	1.557	13	1.613	13	1.644	CONT	CONT	CONT	CONT
Training Equipment Production Support Shore Pre-Installation Design Interim Contractor Support								0.088		0.093		0.097		0.102		0.107	CONT	CONT	CONT	CONT
Installation of Hardware PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP	101 101	3.241 3.241	20	0.206	17	0.414	13	0.338	13	0.343	13	0.343	13	0.345	13	0.349	CONT	CONT	203 101 0 20	5.58 3.24 0.00 0.21
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP			20	0.200	17	0.414	13	0.338	13	0.343	13	0.343	13	0.345					17 13 13 13 13	0.41 0.34 0.34 0.34 0.35
FY 11 EQUIP FY TC EQUIP															13	0.349	CONT	CONT	13 CONT	0.35 CONT
TOTAL INSTALLATION COST		3.241		0.206		0.414		0.426		0.436		0.440		0.447		0.456		CONT		CONT
TOTAL PROCUREMENT COST		13.081		1.988		1.953		1.988		2.039		1.997		2.060		2.100		CONT		CONT
METHOD OF IMPLEMENTATION:	·		•		•		-	ADMINIS	TRATIVE	LEAD TI	ME:	1 mo.			PRODU	CTION LE	AD TIME:		3 mos.	
	CONTR	ACT DATE	S:	FY 2004:		Oct-03		FY 2005:		Oct-04		FY 2006:		Oct-05		FY 2007:	i	Oct-06		
	DELIVE	RY DATES	S:	FY 2004:		Jan-04		FY 2005:		Jan-05		FY 2006:		Jan-06		FY 2007:		Jan-07		
INSTALLATION SCHEDULE:	PY			1	2 E	<u>/ 06</u> 3	4		1	<u>FY</u> 2	<u>7 07</u> 3	4		1	<u>F</u>	<u>Y 08</u> 3	4			
INPUT	121	_			6	6	5	_		5	5	3			5	5	3			
OUTPUT	121				6	6	5			5	5	3			5	5	3			
INSTALLATION SCHEDULE:				1	<u>F</u> `	<u>/ 09</u> 3	4		1	<u>FY</u> 2	<u>' 10</u> 3	4		1	<u>F</u> `	<u>Y 11</u> 3	4		TC	TOTAL
INPUT					_		3	=		5	5	3			5	5	3	•		CONT.
					5	5	3			5	5	3			5	5				
OUTPUT					5	5	3			5	5	3			5	5	3		CONT.	CONT.

for installation at Navy supported GCCS-Joint shore sites. Procurements include intelligent workstations, servers and software equipment.

Notes/Comments: Quantities represent Joint systems upgraded per year. Currently, there are 42 GCCS Joint systems installed at a total of 39 GCCS Joint sites. Beginning in FY07, there will be 38 systems installed at a total of 37 sites.

February 2006

UNCLASSIFIED February 2006

MODIFICATION TITLE: Tactical/Mobile (TacMobile) Upgrades

COST CODE N/A

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: This line procures various types of Command & Control (C2), Networks, Communications and Mobility Equipment in order to provide an upgraded capability to present TSC, MOCC, and JMAST

systems and their equivalents and to recapitalize equipment when it has reached the end of service life, thus assuring the existing system remains interoperable with Joint and Naval Forces, as

well as updated aircraft, sensors, and weapons systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)		PY	_	Y 05	_	7 06		Y 07	_	Y 08		Y 09	_	Y 10	_	Y 11	-	c	To	tal.
	Qty	<u> </u>	Qty	\$	Qty	<u>r 06</u> \$	Qty	<u>r 07</u> \$	Qty	<u>1 U6</u> \$	Qty	\$	Qty	<u>1 10</u> \$	Qty	<u>1 1 </u> \$	Qty 1	<u>C</u> S	Qty	<u>кан</u> \$
RDT&E PROCUREMENT:	Qty	Ψ	Qty	Ÿ	Qty	Ψ	Qty	Ψ	Qty	ų.	Qty	¥	Qty	Ψ	Qty	¥	Qty	Ψ	Qty	φ
Kit Quantity Installation Kits																				
Installation Kits Nonrecurring	l																			
Equipment	74	45.175	23	9.604	26	10.912	12	5.559	12	5.140	23	11.168	29	14.233	26	15.365	CONT	CONT	CONT	CONT
Equipment (TSC - fixed sites) Equipment (Mobile Systems)	63 11	39.199 5.976	11 12	2.682 6.922	12 14	1.778 9.134	6 6	0.908 4.651	6 6	1.992 3.148	9 14	3.328 7.840	11 18	4.137 10.096	8 18	3.415 11.950	CONT	CONT	CONT	CONT
Equipment Nonrecurring Engineering Change Orders Data																				
Training Equipment Production Support																				
Shore Pre-Installation Design Interim Contractor Support								0.042		0.075		0.086		0.073		0.080	CONT	CONT	CONT	CONT
Installation of Hardware	63	9.603	11	1.087	12	1.228	6	0.254	6	0.799	9	1.429	11	1.649	8	1.408	CONT	CONT	126	17.46
PRIOR YR EQUIP	63	9.603																	63	9.60
FY 05 EQUIP			11	1.087															11	1.09
FY 06 EQUIP					12	1.228													12	1.23
FY 07 EQUIP							6	0.254											6	0.25
FY 08 EQUIP									6	0.799									6	0.80
FY 09 EQUIP											9	1.429							9	1.43
FY 10 EQUIP													11	1.649		4 400			11	1.65
FY 11 EQUIP FY TC EQUIP															8	1.408	CONT	CONT	8 CONT	1.41 CONT
TOTAL INSTALLATION COST	-	9.603		1.087		1.228		0.296		0.874		1.515		1.722		1.488	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST		54.778		10.691		12.140		5.855		6.014		12.683		15.955		16.853		CONT		CONT
METHOD OF IMPLEMENTATION:	L	04.770		10.001		12.140			TRATIV	E LEAD TI	MF.	Various		10.000	PRODU	CTION LEA	D TIME:	00111	Various	00111
THE THOSE OF THE ELEMENT THOSE																			74.1040	
	CONTRA	ACT DATES	5:	FY 2004:		Various		FY 2005:		Various		FY 2006:		Various		FY 2007:		Various		
	DELIVE	RY DATES:		FY 2004:		Various		FY 2005:		Various		FY 2006:		Various		FY 2007:		Various		
						<u>/ 06</u>					07					/ 08				
INSTALLATION SCHEDULE:	PY	-		1	2	3	4	_	1	2	3	4		1	2	3	4	-		
INPUT	74					3	9				3	3				3	3			
OUTPUT	74					3	9				3	3				3	3			
					_					_	(10				_					
INSTALLATION SCHEDULE:				1	2	<u>7 09</u> 3	4	_	1	2 2	<u>′ 10</u> 3	4		1	2	<u>/ 11</u> 3	4	_	TC	TOTAL
INPUT						3	6				4	7				3	5		CONT	CONT
OUTPUT						3	6				4	7				3	5		CONT	CONT

Notes/comments:

The C2 component was reported separately in previous budgets due to the relationship to the GCCS-M ACAT 1 program. Resulting from TacMobile's designation as an ACAT 3 program, the C2 component will no longer be reported separately. Quantities represent separate Command & Control (GCCS-M), Networks, Communications and Mobility component system upgrades of TacMobile systems. Tactical Mobile inventory objectives (I/O) includes: TSC (12), MOCC (11), and JMAST (4). The total I/O is Mobile systems in the Tac/Mobile program are delivered "turn key".

Tactical/Mobile (TacMobile) Upgrades previously referred to as Tactical/Mobile Command & Control (C2) Upgrades and Tactical/Mobile Communications & Mobility (C&M) Upgrades.

							DATE	Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY OPN - BA2 COMMUNICATIONS & ELECTRONIC EQU	JIPMENT		P-1 ITEM NON 261100 Naval	MENCLATURE Tactical Comma	and Support Sys	tem	1	SUBHEAD 52DY	
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY									
COST (in millions)	\$20.1	\$51.0	\$35.3	\$31.2	\$39.5	\$40.3	\$41.1	CONTINUING	CONTINUING

Narrative Description/Justification:

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS: The Naval Tactical Command Support System (NTCSS) is a multi-function program designed to provide standard tactical support information systems to various afloat and associated shore-based fleet activities. The mission is to provide the full range of responsive tactical support Automated Data Processing (ADP) hardware and software in support of the management of information, personnel, material and funds required to maintain and operate ships, submarines, and aircraft. NTCSS is to provide an efficient management of afloat tactical support data, through the use of standardized hardware and software, to meet the mission support information management requirements for force sustainment. On 6 June 1995, NTCSS and its component subsystems, discussed below, were selected as Command and Control migration systems under the auspices of Assistant Secretary of Defense (ASD) Command, Control, Communications, and Intelligence (C3I).

NTCSS incorporates the functionality of the Shipboard Non-Tactical ADP Program (SNAP) systems, the Naval Aviation Logistics Command Management Information System (NALCOMIS), and the Maintenance Resource Management System (MRMS).

SNAP is an automated information system that supports organizational level maintenance, supply, financial and administrative functions on afloat units, at Marine Aviation Logistics Squadrons (MALS) and at associated shore activities. Due to the age and obsolescence of SNAP I and SNAP II, these systems were replaced with SNAP III in the 1994 through 2000 time frame. SNAP improves equipment supportability and maintainability and thus readiness through: improvement in the accuracy of maintenance, supply, financial and related support data maintained and reported by the ship; and acceleration of management report preparation and data transmission. The scope of SNAP includes approximately 300 sites.

NALCOMIS is an automated, real time, interactive, management information system that provides a modern management tool for day-to-day management of aircraft maintenance at the organizational and intermediate levels. NALCOMIS automates management of the aviation repairables inventory, providing nose-to-tail tracking through the repair and operations cycles. The scope of NALCOMIS includes 66 aviation intermediate maintenance activities located afloat (Aircraft Carriers and Large Amphibious Ships/MALS), at Naval Air Stations (NASs), and approximately 326 Navy and Marine Squadrons.

MRMS is an automated information system that supports ship intermediate maintenance management of the Atlantic and Pacific Fleets. MRMS supports Type Commands, Group Commanders, Area Coordinators, Readiness Support Groups, Submarine Squadrons, Ship Repair Facilities, and various Intermediate Maintenance Activities, both afloat and ashore, for budgeting, planning, production and analysis of ship maintenance. MRMS improves ship readiness through improved maintenance and ship repair management, information resource management, and maintenance data processing. The scope of MRMS includes approximately 16 shipboard and 65 shore based intermediate and maintenance and planning activities.

Funding for FY05-11 procures: 1) NTCSS system upgrades for ships; 2) NTCSS system upgrades for Naval Air Stations, Squadrons, Shore Support Facilities, Fleet Training Centers and MALS; and 3) necessary production engineering and installation support.

INSTALLATION AGENT: All Fleet Modernization Program (FMP) installations will be accomplished by Yard Availability.

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET		DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OPN - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	261100 Naval Tactical Command Support System		52DY

Narrative Description/Justification: (continued)

The Navy Marine Corps Intranet (NMCI) provides the LAN and PCs at CONUS Naval Air Stations and training sites. NTCSS will continue to procure and install application servers and printers for CONUS Naval Air Stations and training sites. Because ships, CONUS sites, and MALS are not included in the scope of the seat management concept under Navy/Marine Corps Intranet (NMCI), NTCSS will continue to procure and install PCs, Commercial of the Shelf (COTS) software, printers, and NTCSS application servers and server software.

NTCSS-Optimized software will continue to be fielded at remaining program-of-record (POR) afloat and ashore sites. Ship set and MALS/Shore equipment upgrades continue. Hardware upgrades required for obsolescence avoidance. Racks integrated with current server and peripheral configurations will be procured from NAVSEA's Q70 contract for ships and subs lacking the current NTCSS-approved infrastructure.

> P-1 SHOPPING LIST PAGE NO.

Exhibit P-40, Budget Item Justification

DATE **COST ANALYSIS** February 2006 APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE SUBHEAD OPN - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT 261100 Naval Tactical Command Support System 52DY TOTAL COST IN THOUSANDS OF DOLLARS PΥ FY 2005 FY 2006 FY 2007 COST ID TOTAL UNIT TOTAL UNIT TOTAL UNIT TOTAL CODE **ELEMENT OF COST** CODE QTY COST QTY COST COST QTY COST COST QTY COST COST DY002 MALS/Shore Equipment 41 29.059 Α DY004 Ship Set Equipment Α 122 75,090 DY005 Ship Set Equipment Upgrades Α 155 82,308 30 94.10 2.823 71 173.03 12.285 36 259.59 9,345 DY005 Q-70 Based IT-21 Servers (Congressional Plus-up) 10 283.33 Α 5,100 430.00 4,300 2,550 DY006 MALS/Shore Equipment Upgrades 447 102,040 35 210.37 7.363 77 168.88 13,004 64 171.93 11,003 DY500 **Production Support** 11,026 DY555 Production Support Α 14,722 1,574 2.169 1,656 INSTALLATION 4,077 DY777 105,300 20.984 13,306 Non-FMP Installation NTCSS Α 44,655 1,183 8,073 7,654 FMP Installation NTCSS 58.025 2.685 Α 11.214 4.993 2,620 NTCSS-Design Services Allocation (DSA) 209 1,697 659 **TOTAL CONTROL** 424,645 20,137 50,992 35,311 FY05 Ship Sets Upgrades only include Automated Technical Information System (ATIS) server.

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. PAGE NO. 48 3 Exhibit P-5, Cost Analysis

UNCLASSIFIED CLASSIFICATION

DATE PROCUREMENT HISTORY AND PLANNING February 2006 APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE SUBHEAD OPN - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 261100 Naval Tactical Command Support System 52DY CONTRACTOR RFP DATE CONTRACT SPECS DATE COST **ELEMENT OF COST** FΥ AND METHOD **LOCATION** ISSUE AWARD **OF FIRST** QTY UNIT AVAILABLE REVISIONS CODE LOCATION OF PCO DATE **DELIVERY** COST AVAILABLE & TYPE DATE NOW DY005 Ship Set Equipment Upgrades Q70 **IDIQ** Navy Nov-03 Jan-06 30 \$170.000 Yes 05 Q70 IDIQ 10 \$430.000 Yes Ship Set Equipment Upgrades Navy Nov-04 Jan-05 SPAWAR Consolidated IDIQ Navy Nov-04 Jan-05 30 \$93,600 Yes Various IDIQ Navy Nov-04 Jan-05 30 \$495 Yes Ship Set Equipment Upgrades 06 Q70 IDIQ Navy Nov-05 Jan-06 9 \$283.333 Yes SPAWAR Consolidated **IDIQ** Navy Nov-05 Jan-06 71 \$172,274 Yes Various IDIQ Nov-05 Jan-06 71 \$756 Navy Yes Ship Set Equipment Upgrades 07 Q70 IDIQ Nov-06 Jan-07 36 \$175.075 Yes Navy SPAWAR Consolidated **IDIQ** Navy Nov-06 Jan-07 36 \$83,430 Yes Various IDIQ Nov-06 Jan-07 36 \$1,084 Navy Yes

D. REMARKS

Between years, the composition of ships changes, i.e., one year may have more larger ships like carriers while another year may consist mainly of submarines. As a result, the per unit costs are different. Moreover, different ships require different peripherals listed under the "Various" category, which leads to per unit cost differences in that category.

DD FORM 2446, JUN 87

P-1 SHOPPING LIST
ITEM NO. PAGE NO.
48 4

Exhibit P-5A, Procurement History and Planning

<u>UNCLASSIFIED</u>

CLASSIFICATION

DATE PROCUREMENT HISTORY AND PLANNING February 2006 APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE **SUBHEAD** OPN - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 261100 Naval Tactical Command Support System 52DY CONTRACTOR CONTRACT RFP DATE SPECS DATE ISSUE **OF FIRST** QTY COST **ELEMENT OF COST** FΥ AND **METHOD** LOCATION **AWARD** UNIT AVAILABLE REVISIONS CODE LOCATION OF PCO DATE DATE **DELIVERY** COST AVAILABLE & TYPE NOW DY006 MALS/Shore Equipment Upgrades 05 Q70 **IDIQ** Jan-05 35 \$116,912 Yes Navy Nov-04 SPAWAR Consolidated IDIQ Navy Nov-04 Jan-05 35 \$92,500 Yes **IDIQ** Jan-05 35 \$957 Various Navy Nov-04 Yes MALS/Shore Equipment Upgrades 06 Q70 **IDIQ** Nov-05 Jan-06 77 \$102,076 Navy Yes SPAWAR Consolidated IDIQ Navy Nov-05 Jan-06 77 \$66,140 Yes Various IDIQ Navy Nov-05 Jan-06 77 \$662 Yes MALS/Shore Equipment Upgrades 07 Q70 IDIQ Navy Nov-06 Jan-07 64 \$95.548 Yes SPAWAR Consolidated **IDIQ** \$75,597 Navy Nov-06 Jan-07 64 Yes Various IDIQ Navy Nov-06 Jan-07 64 \$782 Yes

D. REMARKS

Between years, shore site configurations change, i.e., more larger sites in one year compared to another. As a result, the per unit costs are different. Moreover, different shore site configurations require different peripherals listed under the "Various" category, which leads to per unit cost differences in that category.

DD FORM 2446, JUN 87

P-1 SHOPPING LIST ITEM NO. PAGE NO. 48 5 Exhibit P-5A, Procurement History and Planning

<u>UNCLASSIFIED</u>

CLASSIFICATION

MODIFICATION TITLE:

261100 Naval Tactical Command Support System Ship Set Equipment Upgrades (52DY/DY005)

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Provides modern centrally managed mission support ADP system upgrades and NTCSS-Optimized software to replace aging systems for Battle Group and unit level ships. Application subsystems include/financial/inventory management, organizational and surface maintenance management, and administrative information systems support. NTCSS procurements will also provide ship capabilities for displaying and storing Computer-aided Acquisition and Logistics Support (CALS) initiative information (digitized engineering drawings, automated technical manuals, etc.).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

		1 .	PY.	E/	<u> 7 05</u>	F	Y 06	FY	07	FY	nα	F	Y 09	E.	<u> 10</u>	FY	11	<u>TC</u>	To	otal
		Qty -	\$	Qty	\$	Qty	\$	Qty	<u>07</u> \$	Qty	\$	Qty	\$	Qty	<u>- 10</u> \$	Qty	 \$	l Qty \$	Qty	\$
RDT&E			Ť		Ť	,					,		Ť					y +		
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment		250	83.9	40	7.1	80	14.8	36	9.3	15	6.4	36	11.1	42	8.2	47	9.1	Continuing	546	150.0
Equipment Nonrecurring																	***			
Engineering Change Orders																				
Data																				
Training Equipment																				
Production Support			7.2		0.9		1.2		0.8		0.5		0.8		0.6		0.6	Continuing	0	12.6
Other (DSA)			2.3		0.2		1.7		0.7		0.4		0.7		0.7		0.8	Continuing	0	7.4
Interm Contractor Support													*							
Installation of Hardware*		193	33.2	46	2.7	101	11.2	36	5.0	15	4.3	36	6.2	42	4.7	47	5.3	Continuing	516	72.7
PRIOR YR EQUIP		193	33.2																193	33.2
FY 03 EQUIP			00.2																0	0.0
FY 04 EQUIP				27	1.3														27	1.3
FY 05 EQUIP				19	1.4	21	2.5												40	3.9
FY 06 EQUIP						80	8.7												80	8.7
FY 07 EQUIP						00	0	36	5.0										36	5.0
FY 08 EQUIP								00	0.0	15	4.3								15	4.3
FY 09 EQUIP										10	4.0	36	6.2						36	6.2
FY 10 EQUIP													0.2	42	4.7				42	4.7
FY 11 EQUIP														72	7.7	47	5.3		47	5.3
FY TC EQUIP																7/	5.5		7,	5.5
TOTAL INSTALLATION COST		193	35.5	46	2.9	101	12.9	36	5.7	15	4.7	36	6.9	42	5.4	47	6.1	Continuing	516	80.1
TOTAL PROCUREMENT COST			126.6		10.9		28.9		15.8		11.6	- 00	18.8		14.1		15.8	Continuing	0.0	242.6
METHOD OF IMPLEMENTATION:								STRATIVE I		ME:	2 months			PRODU	CTION LEA	ADTIME:		2 months		
CONTRACT DATES:		ı	FY 2004:		Nov-03			FY 2005:		Nov-04			FY 2006:		Nov-05			FY 2007:	Nov-06	
DELIVERY DATES:		ı	FY 2004:		Jan-06			FY 2005:		Jan-05			FY 2006:		Jan-06			FY 2007:	Jan-07	
				E.	<u>′ 06</u>				E,	Y 07				E,	<u> </u>					
INSTALLATION SCHEDULE:	PY	_	1	2	3	4	_	1	2	3	4		1	2	3	4				
INPUT	239			33	34	34			12	12	12			5	5	5				
OUTPUT	239			33	34	34			12	12	12			5	5	5				
	200			00	04	04			12	12	12			Ü	Ü	Ü				
INOTALL ATION COLIFOLILE					FY 09				_	<u>Y 10</u>					<u>Y 11</u>			T 0	TOTAL *	
INSTALLATION SCHEDULE:		-	11	2	3	4	_	1	2	3	4		1	2	3	4		TC	TOTAL *	
				12	12	12			14	14	14			15	16	16		Continuing	516	
INPUT																				
INPUT OUTPUT				12	12	12			14	14	14			15	16	16		Continuing	516	

UNCLASSIFIED

February 2006

261100 Naval Tactical Command Support System MALS/Shore Equipment Upgrades(52DY/DY006) MODIFICATION TITLE:

Provides modern centrally managed mission support ADP system upgrades, and IMA-Optimized and OMA-Optimized software to replace aging systems at MALS, Naval Air Stations, MODELS OF SYSTEMS AFFECTED:

squadrons, and training sites. IMA is the aviation Intermediate Maintenance Activity and OMA is the aviation Organizational Maintenance Activity.

Application subsystems include/financial/inventory management, organizational and surface maintenance management, and administrative information systems support. NTCSS DESCRIPTION/JUSTIFICATION:

procurements will also provide ship/shore capabilities for displaying and storing Computer-aided Acquisition and Logistics Support (CALS) initiative information (digitized engineering

drawings, automated technical manuals, etc.).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

, , , , , , , , , , , , , , , , , , , ,			PY	FY	/ 0 <u>5</u>	<u>F</u>	′ 06	FY	07	FY	′ 08	E'	Y 09	E.	<u> </u>	FY	<u> 11</u>	<u>TC</u>	To	tal
	1	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$ Qty	\$
RDT&E	ľ			-		-								·					·	
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
_		551	400.0	35	7.4	77	40.0	64	44.0	C4	44.0	65	44.7	74	44.0	73	444	Cantinuina	1003	184.8
Equipment		551	102.0	33	7.4	11	13.0	64	11.0	64	11.0	65	11.7	74	14.6	13	14.1	Continuing	1003	184.8
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Production Support			7.4		0.7		1.0		0.8		0.9		0.9		1.1		1.0	Continuing	0	13.7
Shore Pre-Installation Design									0.1		0.1		0.1		0.1		0.1		0	0.5
Interm Contractor Support																				
Installation of Hardware*		551	42.0	35	1.2	77	8.1	64	7.6	64	7.6	65	8.0	74	10.4	73	10.1	Continuing	1003	95.0
PRIOR YR EQUIP		551	42.0	00		• • •	0					00	0.0					Commung	551	42.0
FY 03 EQUIP		551	72.0																0	0.0
FY 04 EQUIP				0.5	4.0														0	0.0
FY 05 EQUIP				35	1.2														35	1.2
FY 06 EQUIP						77	8.1												77	8.1
FY 07 EQUIP								64	7.6										64	7.6
FY 08 EQUIP										64	7.6								64	7.6
FY 09 EQUIP												65	8.0						65	8.0
FY 10 EQUIP														74	10.4				74	10.4
FY 11 EQUIP																73	10.1		73	10.1
FY TC EQUIP																				
TOTAL INSTALLATION COST	-	551	42.0	35	1.2	77	8.1	64	7.7	64	7.7	65	8.1	74	10.5	73	10.2	Continuing	1,003	95.5
TOTAL PROCUREMENT COST	-	001	151.4		9.2		22.1	<u> </u>	19.5	· ·	19.6		20.7		26.2		25.3	Continuing	1,000	294.0
METHOD OF IMPLEMENTATION:	L		101.4		0.2			STRATIVE		/E·	2 months		20.1	PRODI I	CTION LE	ADTIME:	20.0	2 months		204.0
WETTIOD OF INIT ELIMENTATION.							ADMINI	JIKATIVL	LLADIII	VIL.	2 1110111113			I KODO	OTION LL	ADTIME.		2 1110111113		
CONTRACT DATES			EV 0004		N 00			EV 000E		No. 04			EV 0000		N 05			F)/ 0007	N 00	
CONTRACT DATES:			FY 2004:		Nov-03			FY 2005:		Nov-04			FY 2006:		Nov-05			FY 2007:	Nov-06	
DELIVERY DATES:			FY 2004:		Jan-04			FY 2005:		Jan-05			FY 2006:		Jan-06			FY 2007:	Jan-07	
				FΥ	<u> </u>				F١	<u> </u>				F۱	<u> </u>					
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2	3	4		1	2	3	4				
							_	-					-		-		•			
INPUT	586			25	26	26			21	21	22			21	21	22				
	000			20	20	20														
OUTPUT	586			25	26	26			21	21	22			21	21	22				
0011 01	300			20	20	20			21	21	22			21	21	22				
					FY 09				<u>F</u>	<u>/ 10</u>				E.	<u>Y 11</u>					
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4		1	2	3	4		TC	TOTAL *	
							_										-			
INPUT				21	22	22			24	25	25			24	24	25		Continuing	1,003	
																		ŭ		
OUTPUT				21	22	22			24	25	25			24	24	25		Continuing	1,003	
																		y	.,	
* NTCSS Shore Inventory Objective is 3	397. Total	guanti	tv indicate	hardware	e & Softwa	re														
upgrades, procurement, Y2K fixes an			.,		: -:	-														
apgrados, producinoni, 1210 lixes all	aotanatic	,, ,,																		

																																		DAT	ſΕ							
										PR	OD	UC.	TIOI	N S	CHE	Ðι	JLE																				F	-ebri	uary	200)6	
																												(DOI) EX	HIBI	T P-2	21A)										
PPROPR	RIATION/BUDGET ACTIV	/ITY														P-1 I	TEM	NO	MEN	CLA.	TURI	Ε														SUE	3HEA	AD NO	5 .			
P,N - BA	2 COMMUNICATIONS &	ELECTI	RON	IIC EQI	JIPMENT												2611	1 00	Nava	Tac	tical	Com	man	d Sup	port	Syste	m										52D					
			s		ACCEP	BAL					FISC	AL YI			06								FISC	AL Y			07									CAL Y			80			
COST	ITEM/MANUFACTURER		E	PROC	PRIOR	DUE		CY 0	5					CALE	NDA	R YE	AR		06					С	ALEN	IDAR	YEA	R		07				C	ALE	NDAR	(YEA	ιR		80		
CODE			R	QTY	то	AS OF	0	N	D	J	F	М	Α	М	J	J	Α	s	0	N	D	J	F	М	Α	M	J	J	Α	s	0	N	D	J	F				J	J	Α	
			٧		30-Sep	30-Sep	С	0	Е	Α	Е	Α	Р	Α	U	U	U	Е	С	0	Е	Α	E	Α	Р	Α	U	U	U	E	С	0	E	Α	E		Р	Α	U	U	U	
		FY	1				Т	٧	С	N	В	R	R	Υ	N	L	G	Р	Т	٧	С	N	В	R	R	Υ	N	L	G	Р	Т	٧	С	N	В	R	R	Υ	N	L	G	1
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DY005	COTS H/W and S/W	06		80				Α		1	1	8	8	10	10	10	10	10				_	_	-	_	_	-	_	_						₩	┿	<u> </u>	├ —'	igspace	<u> </u>	₩	+
DY005	COTS H/W and S/W	07	+	36																Α		4	4	4	4	4	4	4	4	4					₩	₩	₩	₩'	igwdapsilon	 	₩	+
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			PRODUCTION I	ATE		PROCUREME	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSI	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
COTS Hardware and Software	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST ITEM NO. PAGE NO. 48 8 Exhibit P-21, Production Schedule
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CLASSIFICATION

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BUDGET ITEM JUSTIFICATION	ON SHEET				DATE			Februar	ry 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELEC	CTRONIC EQU	JIPMENT		_	MENCLATURE anced Tactical Da	ata Link System	ns	SUBHEAD 52DR	
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY									
COST (in millions)	\$2.4	\$13.9	\$12.5	\$24.2	\$26.3	\$15.3	\$0.0	Continuing	Continuing

PROGRAM COVERAGE: The Advanced Tactical Data Link Systems (ATDLS) funds the Time Division Multiple Access (TDMA) family of Link 16 terminals including the Multifunctional Information Distribution System - Low Volume Terminal (MIDS-LVT) and the Tactical Digital Information Link J (TADIL J) message standard databases resident in the Command & Control Processor (C2P) sub-system. The Common Data Link Management System (CDLMS) is designated as Pre-planned Product Improvement (P3I) of the C2P. ATDLS also funds the Joint Interface Control Officer (JICO) Support System (JSS), the Next Generation C2P (NGC2P) which will support Link-22, Air Defense System Integrator (ADSI), Joint Range Extension (JRE) and other ATDLS enhancements.

AN/UYQ-86 COMMAND AND CONTROL PROCESSOR (C2P) REHOST (C2P(R))/COMMON DATA LINK MANAGEMENT SYSTEM (CDLMS): AN/UYQ-86 C2P(R)/CDLMS Program is the acquisition of commercial-off-the-shelf (COTS) versa module eurocards (VME) based Navy computers in conjunction with a software suite to provide the interface between tactical and digital communication systems and selected shipboard processors (Advanced Combat Direction Systems (ACDS) and AEGIS Command & Decision (C&D)). C2P extracts information from the Tactical Digital Information Links (TADILS) A, C & J (or Link 11, Link 4A, and Link 16), translates between TADILS and provides the information back to the on-board processor. This provides flexible capability for rapidly exchanging tactical information using a universal database for translating various Link formats while remaining independent of communication equipment and tactical data computing systems. C2P Rehost uses COTS hardware (AN/UYQ-70), making the system easier and less expensive to upgrade and maintain.

Common Data Link Management System is designated as the pre-planned product improvement to the C2P. It is integrated with the C2P(R) via a set of commercial VME processors to provide enhanced, consolidated displays to monitor and analyze multi-TADIL networks graphically. All procurement of CDLMS hardware will include the Satellite-TADIL-J (S-TADIL-J), and the Electronic Joint Tactical Information Distribution System (JTIDS) Network Library (E-JNL). S-TADIL-J consists of an additional set of cards and cables integrated into the CDLMS chassis, enabling the system to send Link 16 information over satellite, providing range extension beyond the Theater of Operation. E-JNL provides pre-defined networks (configurations of ships and aircraft) allowing immediate access to different operational configurations. This minimizes delays for reconfiguring the network when new platforms are introduced to a mission.

CDLMS TECHNOLOGY REFRESH: The CDLMS is comprised of Commercial-Off-the Shelf (COTS) products. Existing processors have become obsolete and no longer available for procurement. In addition, the existing processor's current speed and memory capabilities do not support efficient software performance. The CDLMS Technology Refresh Program will allow fielding of current processing capability to ensure optimum operational performance.

NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT SHIP/SHORE: The NGC2P Field Change Kit upgrades existing Model 5 CDLMS units on the ship and shore to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Link 11, Link 16, Link 22 and Joint Range Extension (JRE).

BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			
	BLI 2614 Advanced Tactical I	Data Link Systems	52DR

AIR DEFENSE SYSTEM INTEGRATOR (ADSI): ADSI provides an interim solution to a fleet requirement for a fused operational and tactical picture and MIL-STD 3011 Joint Range Extension (JRE) capability. ADSI provides situational awareness and battle management capabilities in both shore based Command Centers and Tactical Flag Command Centers (TFCC) for large decks and carriers. For Command Ships, ADSI is not only a TADIL Processor but also functions as a host computer for processing and displaying near real time track data either at its own Tactical Situational Display (TSD) or in Global Command and Control System-Maritime (GCCS-M.) The ADSI processes, correlates and displays up to 4000 air, land, surface and subsurface tracks from local radar, TADIL and intelligence sources with minimal operator interaction. It provides the warfighter with a fused, correlated, real-time picture of the battle space needed to conduct a mission.

MIDS ON SHIP (MOS): The Multifunctional Information Distribution System Low Volume Terminal (MIDS-LVT) is a five nation cooperative program that provides a third generation Link 16 system that satisfies U.S. and allied requirements to exchange tactical information in a digital format across a broad range of sources. Building on Joint Tactical Information Distribution System (JTIDS), MIDS uses the latest technology to reduce system size and weight. It is designed to be readily reconfigurable for different user needs. MOS consists of a MIDS-LVT integrated into a JTIDS type Electronics Cabinet Assembly including a Terminal Controller, High Power Amplifier/Adapter, and Ship Antenna Power Supplies.

JOINT INTERFACE CONTROL OFFICER (JICO) SUPPORT SYSTEM (JSS): JSS will be the standard joint service toolset to plan, organize, manage, monitor and control multi-TADIL network architectures. JSS also provides interfaces and data to Global Command & Control System (GCCS) and Joint Planning Network (JPN) for collaborative planning and Common Operational Picture (COP).

JUSTIFICATION OF FY 05 REQUIREMENTS: FY05 funds were used for production support of C2P(R)/CDLMS Forward Fit, CDLMS Technology Refresh Ship. NGC2P Field Change Kit Ship, and MIDS on Ship - Shore, MIDS on Ship Forward Fit. FY05 funds were also used for Link 16 Alteration Installation Team (AIT) and shipyard installs for CDLMS Technology Refresh (Field Change Kit) Ship/Shore, ADSI Ship and MIDS on Ship - Shore.

JUSTIFICATION OF FY 06 REQUIREMENTS: FY06 funds will be used to procure NGC2P Field change Kit Ship/Shore, ADSI Ship, ADSI Upgrade Ship and associated production support and training. Funding will be also used for Link 16 Alteration Installation Team (AIT) and shipyard installs for NGC2P Field Change Kit Ship, ADSI Ship ADSI Upgrade Ship/Shore, MIDS on Ship - Shore and MIDS on Ship Forward Fit.

JUSTIFICATION OF FY 07 REQUIREMENTS: FY07 funds will be used to procure NGC2P Field change Kit Ship/Shore, JSS Ship/Shore and associated production support and training. FY07 funds will also be used for shipyard installs for NGC2P Field Change Kit Ship/Shore, ADSI Ship and ADSI Upgrade Ship.

INSTALLATION AGENT: Space & Naval Warfare Systems Command Systems Center (SPAWARSYSCEN), San Diego and SPAWARSYSCEN Charleston.

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BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2006
	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			
	BLI 2614 Advanced Tactical D	ata Link Systems	52DR

DEFINITIONS OF COST CODES:

DR003: AN/UYQ-86 (C2P/C2P(R)/CDLMS): All hardware costs associated with Command and Control Processor (C2P), C2P Rehost, Common Data Link Management System (CDLMS), Common Shipboard Data Terminal Sets (CSDTS), Satellite-TADIL-J, Electronic JTIDS Network Library (E-JNL), CDLMS Technology Refresh, NGC2P, Air Defense System Integrator (ADSI) and all associated Engineering Change Proposals (ECPs).

DR010: MIDS ON SHIP (MOS): All hardware and nonrecurring engineering cost associated with MIDS on Ship High Power Link 16 terminal includes MIDS Low Volume Terminal (LVT), Ship Antennas, Electronic Cabinet Assembly, Filtering devices, High Power Amplifier Group (HPAG), Terminal controller, and all associated ECPs. MOS terminals scheduled to be procured for training sites will not require the procurement of a new antenna.

DR011: JOINT INTERFACE CONTROL OFFICER (JICO) SUPPORT SYSTEM (JSS): All hardware associated with JSS work station including Tactical Data Link Terminals for Link-11, Link-16, Link-22, Antenna Kits, Link Monitoring Systems, Control and Display Units and large screen display. Shipboard configuration will also include Common Connecting Devices/Gateways or R/F Multiplexer as required.

DR555: PRODUCTION SUPPORT (AN/UYQ-86): Annualized production support includes evaluation of C2P(R)/CDLMS ECPs and production support services for CDLMS, CDLMS Technology Refresh, NGC2P; ADSI, MIDS on Ship and JICO Support System (JSS) production support services and the evaluation of MIDS Engineering Change Proposals (ECPs).

DR666: TRAINING CURRICULUM: Training Curriculum (end-item) for MIDS on Ship Terminal, NGC2P and JICO Support System (JSS).

DR777: INSTALLATION: Link 16 equipment installations into shore and training facilities. Link 16 Alteration Installation Team (AIT), shippard installs and Design Support Activity (DSA), Electronic Environment Effects (EEE) testing, and installation engineering and integration coordination for the Fleet. Covers AIT ship installs for CDLMS FF, C2P(R)/CDLMS Backfit, MIDS on Ship, NGC2P, ADSI and JICO Support System (JSS).

APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND B		COST ANALYSIS									
OP,N - BA-2 COMMUNICATIONS AND E				NOMENO		ļ		SUBHEAD			
	ELECTRONIC EQUIPMENT	1	BLI 2614	Advanced	Tactical Data	a Link Syste	ems (\$K	52DR			
				FY 200			FY 2006			FY 2007	
COST EL	EMENT OF COST	ID CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST		QTY	UNIT COST	TOTAL COST
CODE	EMENT OF COST	CODE	QII	C031	CO31	QII	0031	0031	QII	CO31	6031
DR003 NGC2P Field Change Kit S	Ship	В				31	217.6		12	222.1	2,666
DR003 NGC2P Field Change Kit S DR003 ADSI Ship	Shore	В				1	217.6 204.0		2	222.1	444
DR003 ADSI Upgrade Ship		A A				5 2	204.0 83.7	1,020 167			
DR011 JSS Ship		В							4	836.8	3,347
DR011 JSS Shore		В							3	836.8	2,510
DR555 Production Support		N/A			210			307			532
DR666 Training Curriculum		N/A						550			626
DR777 Installation		N/A			2,160			4,910			2,333
	Ion-Fleet Modernization Program (FMP)				1,067			1,021			249
Installation of Equipment / F DSA	MP				226 868			3,443 445			1,288 796
BOA					000			773			730
	TOTAL				2,370			13,916			12,458

PROC	JREMENT HISTORY AND PLANNING							A. DATE			Februa	ry 2006
B. APPR	OPRIATION/BUDGET ACTIVITY					C. P-1 ITE	M NOMENCL	ATURE			SUBHEAD	
OP,N - B	A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT					BLI 2614 A	dvanced Ta	ctical Data L	ink Sys	stems	52DR	
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST Delivery	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
DR003	AN/UYQ-86 (C2C / C2P (R) / CDLMS) Forward Fit	04	DRS, Wyndmoor, PA	FFP	SPAWAR	N/A	Jul-04	Jan-06	2	330.5	YES	N/A
DR003	NGC2P Field Change Kit Ship	04 06 06 07	DRS, Wyndmoor, PA TBD TBD TBD	FFP FFP FFP	SPAWAR SPAWAR SPAWAR SPAWAR	N/A N/A N/A N/A	May-05 May-06 Jun-07 Jun-07	Feb-06 Feb-07 Mar-08 Mar-08	5 6 25 12	253.6 217.6 217.6 222.1	YES YES YES YES	N/A N/A N/A N/A
DR003	NGC2P Field Change Kit Shore	06 07	TBD TBD	FFP FFP	SPAWAR SPAWAR	N/A N/A	May-06 Jun-07	Feb-07 Mar-08	1 2	217.6 222.1	YES YES	N/A N/A
DR003	Air Defense System Integrator (ADSI) Ship	04 04 06	Ultra Electronics, Austin, TX Ultra Electronics, Austin, TX Ultra Electronics, Austin, TX	FFP FFP FFP Option	SSC CH SPAWAR SPAWAR	N/A N/A N/A	Jul-05 Sep-05 May-06	Sep-05 Jan-06 Sep-06	5 4 5	195.0 195.0 204.0	YES YES YES	N/A N/A N/A
DR003	Air Defense System Integrator (ADSI) Upgrade Ship	04 04 06	Ultra Electronics, Austin, TX Ultra Electronics, Austin, TX Ultra Electronics, Austin, TX	FFP FFP FFP Option	SSC CH SPAWAR SPAWAR	N/A N/A N/A	Jul-05 Sep-05 May-06	Nov-05 Jan-06 Sep-06	3 2 2	80.0 80.0 83.7	YES YES YES	N/A N/A N/A
DR003	Air Defense System Integrator (ADSI) Upgrade Shore	04	Ultra Electronics, Austin, TX	FFP	SPAWAR	N/A	Sep-05	Jan-06	1	80.0	YES	N/A
DR010	MIDS on Ship Shore	04	DLS, Inc., Cedar Rapids, IA	FFP	SPAWAR	N/A	Mar-04	Mar-06	2	1,240.0	YES	N/A
DR010	MIDS on Ship Forward Fit (Note 1)	04	DLS, Inc., Cedar Rapids, IA	FFP	SPAWAR	N/A	Mar-04	Mar-06	2	1,344.0	YES	N/A
DR011	JSS Ship	07	Northrop Grumman, Reston, VA	FFP Option	Hanscom, AFB	N/A	Mar-07	Feb-08	4	836.8	YES	N/A
DR011	JSS Shore	07	Northrop Grumman, Reston, VA	FFP Option	Hanscom, AFB	N/A	Mar-07	Feb-08	3	836.8	YES	N/A
D. REM	ARKS	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>				

Note 1: FY04 MIDS on Ship Forward Fit unit price includes antenna.

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FY 07

MODIFICATION TITLE:

AN/UYQ-86 (C2P(R)/CDLMS) FORWARD FIT DR003

PY

FY 05

FY 06

COST CODE
MODELS OF SYSTEMS AFFECTED:

MODELS OF SYSTEMS AFFECTED DESCRIPTION/JUSTIFICATION:

The C2P(R)CDLMS equipment performs data link processing functions and provides the interface between the Tactical Digital Information Links (TADILS) and selected shipboard processors. CDLMS provides the ability to graphically display multiple TADIL networks for monitoring and analysis.

FY 08

FY 09

FY 10

FY11

TC

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: POST MS III

FINANCIAL PLAN: (\$ in millions)

	1 0 27	1 0.	FY U5		06		1 07	FY 08		<u>FY</u>		FY			111	1 0. <u>10</u>		٠.	TOTAL
DDT::5	Qty \$	Qt	/ \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	60 58.66	1																60	58.661
Training Equipment Production Support Other (DSA)	0.02	2	0.055																0.077
Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP	58 58			2	Note 3													60 58 2	
FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP TOTAL INSTALLATION COST		_																	
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	58.68		0.055 NISTRATIVE LE	VDTIME:		2 MOS		DD	ODLICT	ION LEADT	LIME.		18 MOS						58.738
WETHOD OF IMPLEMENTATION.		ADIVIII	NISTRATIVE EL	ADTINL.		2 10103		FK	ODOCI	ION LLADT	I IIVIL.		10 IVIOS						
	CONTRACT DATE	S:	FY 2004:	Jul-04			FY 2005:				FY 2006:				FY 2007:				
	DELIVERY DATES	3 :	FY 2006:	Jan-06			FY 2005:				FY 2006:				FY 2007:				
INSTALLATION SCHEDULE:	PY	1	<u>FY</u> 2	<u>06</u> 3	4	_	1	<u>FY 07</u> 2	3	4		1	2 <u>FY</u>	<u>′ 08</u> 3	4	-			
INPUT	58		1	1															
OUTPUT	58			1	1														
INSTALLATION SCHEDULE:		1	<u>FY</u> 2	<u>09</u> 3	4	-	1	<u>FY 10</u> 2	3	4		1	2	<u>FY 11</u> 3	4		TC		<u>TOTAL</u> 60
OUTPUT																			60

Notes/Comments

February 2006

Total

^{1.} Total quantity meets inventory objective.

^{2.} Production leadtime varies between 12 to 18 months. For forward fit ships, MIDS on Ship and UYQ-86 (C2P/CDLMS) are installed as a ship set except for command ships. Delivery of forward fit units takes six months longer than those procured into existing suites. This is due to longer integration and testing time at the SPAWAR Systems Center.

^{3.} Installation costs are included in the MIDS on Ship (DR010) installation costs.

MODIFICATION TITLE: COST CODE CDLMS TECHNOLOGY REFRESH (FIELD CHANGE KIT) SHIP (Note 3)

DR003

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

The CDLMS includes many Commercial-Off-the Shelf (COTS) products. The CDLMS Technology Refresh (Field Change Kit) will allow fielding of current processing capability to ensure optimum operational performance while avoiding key component obsolescence.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	<u>PY</u>	FY 05	FY 06	FY 07	FY 08	FY 09	<u>FY 10</u>	<u>FY 11</u>	<u>TC</u>	<u>Total</u>
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	16 0.998				21 1.212 Note 2	103 5.408 Note 2				140 7.619
Training Equipment Production Support Other (DSA) Interm Contractor Support		0.048			0.061	0.270				0.331 0.048
Installation of Hardware*		16 0.136								16 0.136
PRIOR YR EQUIP FY 04 EQUIP		16 0.136								16 0.136
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP		060								
TOTAL INSTALLATION COST		0.136								0.136
TOTAL PROCUREMENT COST	0.998	0.184	 TRATIVE LEADTIME:	2 MOS	1.273	5.678 PRODUCTION LEAR	DTIME:	9 MOS		8.134
METHOD OF IMPLEMENTATION:		ADMINIS	TRATIVE LEADTIME:	2 MOS		PRODUCTION LEAD	DTIME:	9 MOS		
	CONTRACT DATES:	:	FY 2004: Sep-04		FY 2005:			FY 2006:		FY 2007:
	DELIVERY DATES:		FY 2004: Jun-05		FY 2005:			FY 2006:		FY 2007:
INSTALLATION SCHEDULE:	PY	1 2 <u>F</u>	<u>7 06</u> 3 4	1	<u>FY 07</u> 2 3	4	1 2 <u>F</u>	<u>Y 08</u> 3 4	_	
INPUT	16									
OUTPUT	12	4								
INSTALLATION SCHEDULE: INPUT OUTPUT		1 2	3 4	1	2 FY 10 2 3	4	1 2	<u>FY 11</u> 3 4	TC	
										.9

- 1. Total quantity meets inventory objective.
- 2. No installation costs are associated with the CDLMS Technology Refresh (Field Change Kit) for the twenty-one (21) units procured in FY08 and one hundred and three (103) units FY09. Installation is to be done by ship force.
- 3. Will be named CDLMS Service Life Extension Ship commencing FY08.

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MODIFICATION TITLE: COST CODE

CDLMS TECHNOLOGY REFRESH (FIELD CHANGE KIT) SHORE (Note 3)

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

The CDLMS includes many Commercial-Off-the Shelf (COTS) products. The CDLMS Technology Refresh (Field Change Kit) will allow fielding of current processing capability to ensure optimum operational performance while avoiding key component obsolescence.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)			FY 05			FY 06									_					
	Qty	PY f	I Qtv	<u>Y 05</u> \$	l Qtv	<u>Y 06</u> \$	I Qtv	<u>′ 07</u> \$	FY Qtv		<u>FY</u> Qtv		<u>FY</u> Qtv	<u>10</u> \$	Qty	<u>′ 11</u> \$	Qty	<u>TC</u> \$	Qty	Total \$
RDT&E PROCUREMENT:	Qty	\$	Qty		Qty	\$	Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	5	0.312							3 Note 2	0.181									8	0.493
Training Equipment Production Support Shore Pre-Installation Design Interm Contractor Support										0.009										0.009
Installation of Hardware*			5	0.032															5	0.032
PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP			5	0.032															5	0.032
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP																				
TOTAL INSTALLATION COST				0.0320																0.032
TOTAL PROCUREMENT COST		0.312		0.0320						0.190										0.534
METHOD OF IMPLEMENTATION:				ADMINIS'	TRATIVE L	LEADTIME:		2 MOS			PRODUCT	TION LEAD	OTIME:		9 MOS					
	CONTRA	ACT DATES	S:		FY 2004:	Sep-04				FY 2005:					FY 2006:				FY 2007:	
	DELIVER	RY DATES:			FY 2004:	Jun-05				FY 2005:					FY 2006:				FY 2007:	
INSTALLATION SCHEDULE:	PY	_	1	<u>FY</u> 2	<u>′ 06</u> 3	4	-	1	2 <u>FY</u>	<u>07</u> 3	4		1	2 2	<u>′ 08</u> 3	4	_			
INPUT	5																			
OUTPUT	2		3																	
INSTALLATION SCHEDULE:			1	<u>FY</u>	<u>′ 09</u> 3	4		1	<u>FY</u>	<u>10</u> 3	4		1	2	<u>FY 11</u> 3	4		TC		TOTAL
					<u> </u>	4	<u>-</u>			<u> </u>	4				<u> </u>	4	_		_	
INPUT																				5
OUTPUT																				5

^{1.} Total quantity meets inventory objective.

No installation costs are associated with the CDLMS Technology Refresh (Field Change Kit) for the units procured in FY08.
 Will be named CDLMS Service Life Extension Shore commencing FY08.

MODIFICATION TITLE: NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT SHIP

COST CODE

MODELS OF SYSTEMS AFFECTED:

The NGC2P Field Change Kit provides existing Model 5 CDLMS units on the ship with next generation open system hardware and software architecture. NGC2P provides a system capable of DESCRIPTION/JUSTIFICATION:

supporting critical data link functions including simultaneous processing of Link 11, Link 16, Link 22 and JRE.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: POST AEGIS BMD MS C/PRE MS C

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																		_		
	1	PY	. <u>F</u>	Y 05	. <u>F</u>	<u>/ 06</u>		Y 07	<u>F\</u>	<u>/ 08</u>	. <u>F</u>	Y 09	<u>FY</u>			Y 11	<u>T(</u>	<u> </u>	1	Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring	_	4 000			0.4	0.745	40	0.000		4.000	0.5	F FF0		4 700					07	10.010
Equipment	5	1.268			31	6.745	12	2.666	6	1.333	25	5.558	8	1.780					87	19.349
Equipment Nonrecurring																				
Engineering Change Orders Data																				
Training Equipment																				
Production Support		0.050		0.055		0.201		0.133		0.067		0.278		0.089						0.873
Other (DSA)		0.030		0.035		0.201		0.133		0.597		0.838		0.003						2.486
Interm Contractor Support				0.093		0.101		0.544		0.551		0.000		0.231						2.400
Installation of Hardware*					5	0.485	6	0.755	23	2.439	20	2.143	33	3.433					87	9.256
PRIOR YR EQUIP					3	0.400		0.755	20	2.400	20	2.143	33	3.433					01	3.230
FY 04 EQUIP					5	0.485													5	0.485
FY 05 EQUIP						0.100													O	0.100
FY 06 EQUIP							6	0.755	23	2.439	2	0.214							31	3.409
FY 07 EQUIP											12	1.284							12	1.284
FY 08 EQUIP											6	0.645							6	0.645
FY 09 EQUIP													25	2.569					25	2.569
FY 10 EQUIP													8	0.864					8	0.864
FY 11 EQUIP																				
TC EQUIP																				
TOTAL INSTALLATION COST						0.485		0.755		2.439		2.143		3.433						9.256
TOTAL PROCUREMENT COST		1.318		0.150		7.612		4.098		4.436		8.817		5.533						31.964
METHOD OF IMPLEMENTATION:			ADMINIS	STRATIVE L	.EADTIME	:	2 MOS			PRODUC	TION LEA	ADTIME:		9 MOS						
	CONTR	RACT DATES	S :	FY 2004:				FY 2005:	May-05	5		FY 2006:	May-06			FY 2007:	Jun-07			
	DELIVE	RY DATES:		FY 2004:				FY 2006:	Feb-06	5		FY 2007:	Feb-07			FY 2008:	Mar-08			
				- V	. 00				_	/ O7					00					
INSTALLATION SCHEDULE:	PY		4	2	<u>′ 06</u> 3	4		1	2	<u>/ 07</u> 3	4		1	2	<u>08</u> 3	4				
INSTALLATION SCHEDULE.	<u> </u>				3	4	-			3	4	_			3	4				
INPUT				1	3	1			1	3	2		5	6	6	6				
				•	Ü	•			•	Ü	_		Ŭ	ŭ	Ü	ŭ				
OUTPUT					1	3		1		1	3		2	5	6	6				
					<u>′ 09</u>					FY 10			FY 11							
INSTALLATION SCHEDULE:			1	2	3	4	_	1	2	3	4	_	1	2	3	4	_	TC		<u>TOTAL</u>
INDUT			-	-	-	-			0	0	7		•	-						0.7
INPUT			5	5	5	5		6	6	6	7		3	5						87
OUTPUT			6	5	5	5		6	6	6	6		6	3	5					87

^{1.} Total quantity meets inventory objective.

UNCLASSIFIED
February 2006

MODIFICATION TITLE: COST CODE

NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT SHORE

DR003

 ${\tt MODELS\ OF\ SYSTEMS\ AFFECTED:}$

DESCRIPTION/JUSTIFICATION:

The NGC2P Field Change Kit provides existing Model 5 CDLMS units on the shore with next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Link 11, Link 16, Link 22 and JRE.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PRE MS C

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>	FY 05	FY 06		07	FY	08	FY 09		<u>Y 10</u>	FY 11		<u>TC</u>		<u>Total</u>
	Qty \$	Qty \$	Qty \$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring															
Equipment Equipment Nonrecurring Engineering Change Orders Data			1 0.218	2	0.444									3	0.662
Training curriculum Production Support Shore Pre-Installation Design			0.550 0.057		0.457 0.022 0.038		0.011								1.007 0.079 0.049
Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP				1	0.081	2	0.161							3	0.242
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP				1	0.081	2	0.161							1 2	0.081 0.161
FY 10 EQUIP FY 11 EQUIP TC EQUIP TOTAL INSTALLATION COST					0.081		0.161								0.242
TOTAL INSTALLATION COST			0.825		1.042		0.172								2.039
METHOD OF IMPLEMENTATION:		ADMINIS	TRATIVE LEADTIME:	:	2 MOS	U		PRODUCTION LEAD	IME:		9 MOS				
	CONTRACT DATES:		FY 2004:				FY 2005:			FY 2006:	May-06		FY 2007:	Jun-07	
	DELIVERY DATES:		FY 2004:				FY 2005:			FY 2007:			FY 2008:	Mar-08	
INSTALLATION SCHEDULE:	PY	1 2	<u>' 06</u> 3 4		1	<u>FY (</u> 2	<u>3</u>	4	1	<u>FY</u> 2	<u>' 08</u> 3	4			
INPUT						1					2				
OUTPUT							1					2			
INSTALLATION SCHEDULE:	_	1 2	<u>' 09</u> 3 4	_	1	<u>FY ′</u> 2	<u>10</u> 3	4	1	2	<u>FY 11</u> 3	4	TC		TOTAL
INPUT													_		3
OUTPUT															3

MODIFICATION TITLE: COST CODE

AIR DEFENSE SYSTEM INTEGRATOR (ADSI) SHIP DR003

DF

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

AIR DEFENSE SYSTEM INTEGRATOR (ADSI): ADSI provides an interim solution to a fleet requirement for a fused operational and tactical picture and MIL-STD 3011 Joint Range Extension (JRE) capability. ADSI provides situational awareness and battle management capabilities in both shore based Command Centers and Tactical Flag Command Centers (TFCC) for large decks and carriers. For Command Ships, ADSI is not only a TADIL Processor but also functions as a host computer for processing and displaying near real time track data either at its own Tactical Situational Display (TSD) or in Global Command and Control System-Maritime (GCCS-M.) The ADSI processes, correlates and displays up to 4000 air, land, surface and subsurface tracks from local RADAR, TADIL and intelligence sources with minimal operator interaction. It provides the warfighter with a fused, correlated, real-time picture of the battle space needed to conduct a mission.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(, , , , , , , , , , , , , , , , , , ,	PY Qty \$	<u>FY 05</u> Qty \$	<u>FY 06</u> Qty \$	<u>FY 07</u> Qty \$	<u>FY 08</u> Qty \$	<u>FY 09</u> Qty \$	<u>FY 10</u> Qty \$	<u>FY 11</u> Qty \$	TC Qty \$	Qty	Total \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring	9 1.755	αty ψ	5 1.020	Gty W	ucy v	uty u	City U	uty \$	Gty \$\psi\$	14	2.775
Engineering Change Orders Data Training Equipment Production Support Other (DSA) Interm Contractor Support Installation of Hardware*	0.088 0.025	0.148	0.041 0.136 8 0.717	0.030 5 0.448						14	0.129 0.338 1.254
PRIOR YR EQUIP FY 04 EQUIP		1 0.090	8 0.717							9	0.806
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP				5 448.0						5	0.448
TC EQUIP											
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST	1.868	0.090 0.237	0.717 1.913	0.448 0.478							1.254 4.497
METHOD OF IMPLEMENTATION:			STRATIVE LEADTIME		1	PRODUCTION LEA	DTIME:	4 MOS	l	ı	
	CONTRACT DATES	: :	FY 2004:		FY 2005:	Jul-05 and Sep-05		FY 2006: May-06	;	FY 2007:	
	DELIVERY DATES:		FY 2004:		FY 2005:	Sep-05 and Jan-06		FY 2006: Sep-06	3	FY 2007:	
INSTALLATION SCHEDULE:	PY	1 2	<u>Y 06</u> 3 4	11	<u>FY 07</u> 2 3	4	1 2	<u>Y 08</u> 3 4	_		
INPUT	1	1 2	3 2	2	2 1						
OUTPUT		1 1	2 3	2	2 2	1					
INSTALLATION SCHEDULE:		1 2	5Y 09 3 4	1	2 3	4	1 2	FY 11 3 4	TC	_	<u>TOTAL</u> 14

Notes/Comments

OUTPUT

14

^{1.} Total quantity meets inventory objective.

^{2.} Normal production leadtime is four (4) months. Due to emergent requirement of CVN 76 (USS Ronald Reagan), leadtime for one FY04 procurement was ready and installed 4th qtr Sep 05.

MODIFICATION TITLE: AIR DEFENSE SYSTEM INTEGRATOR (ADSI) UPGRADE SHIP

COST CODE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

ADSI V12 upgrade provides the new real time Linux operating system and new hardware suite with today's processor and memory. It will also provide

the Joint Range Extension (JRE) capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(,	<u>PY</u>	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY11	<u>TC</u>	<u>Total</u>	
RDT&E	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty S	\$
PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)	5 0.400		2 0.167							7 0.5	567
Production Support	0.020	0.100	0.008 0.047	0.006							028 153
Installation of Hardware* PRIOR YR EQUIP			5 0.211	2 0.084						7 0.2	295
FY 04 EQUIP FY 05 EQUIP			5 0.211							5 0.2	211
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP				2 0.084						2 0.0	084
TOTAL INSTALLATION COST			0.211	0.084						0.2	295
TOTAL PROCUREMENT COST	0.420	0.100	0.434	0.090							044
METHOD OF IMPLEMENTATION:		ADMINIS	TRATIVE LEADTIME	2 MOS		PRODUCTION LEA	DTIME:	4 MOS			
	CONTRACT DATES	:	FY 2004:		FY 2005:	Jul-05 and Sep-05		FY 2006: May-06	i	FY 2007:	
	DELIVERY DATES:		FY 2004:		FY 2006:	Nov-05 and Jan-06		FY 2006: Sep-06	i	FY 2007:	
INSTALLATION SCHEDULE:	PY	1 2 <u>F</u>	<u>7 06</u> 3 4	1	<u>FY 07</u> 2 3	4	1 2	<u>Y 07</u> 3 4	-		
INPUT		1 3	1	1	1						
OUTPUT		1	3 1		1	1					
INSTALLATION SCHEDULE:		1 2	<u>7 09</u> 3 4	1	<u>FY 10</u> 2 3	4	1 2	<u>FY 11</u> 3 4	TC	<u>TO</u>	
INPUT										7	7

Notes/Comments

OUTPUT

^{1.} Total quantity meets inventory objective.

UNCLASSIFIED
February 2006

MODIFICATION TITLE: AIR DEFENSE SYSTEM INTEGRATOR (ADSI) UPGRADE SHORE

COST CODE DR003

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: ADSI V12 upgrade provides the new real time Linux operating system and new hardware suite with today's processor and memory. It will also provides the Joint Range Extension (JRE) capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	PY	<u>FY 05</u>	-	Y 06	FY 07	FY 08	FY 09	FY 10	<u>FY11</u>	<u>TC</u>		<u>Total</u>
	Qty \$	Qty \$		\$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	1 0.080										1	0.080
Production Support Shore Pre-Installation Design Interm Contractor Support Installation of Hardware*	0.004		1	0.045							1	0.004
PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP			1	0.045							1	0.045
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP												
TOTAL INSTALLATION COST				0.045								0.045
TOTAL PROCUREMENT COST	0.084			0.045								0.129
METHOD OF IMPLEMENTATION:		ADMIN	NISTRATIVE L	EADTIME:	2 MOS		PRODUCTION LEAD	OTIME:	4 MOS			
	CONTRACT DATE	S:	FY 2004:			FY 2005:	Jul-05		FY 2006:		FY 2007:	
	DELIVERY DATES:		FY 2004:			FY 2005:	Nov-05		FY 2006:		FY 2007:	
INSTALLATION SCHEDULE:	PY	1 2	FY 06 3	4	1	<u>FY 07</u> 2 3	4	1 2	FY 08 3 4	_		
INPUT		1										
OUTPUT			1									
INSTALLATION SCHEDULE:		12	FY 09 3	4	1	<u>FY 10</u> 2 3	4	12	<u>FY 11</u> 3 4	TC	<u>-</u>	TOTAL
INPUT												1
OUTPUT												1

Notes/Comments

^{1.} Total quantity meets inventory objective.

UNCLASSIFIED
February 2006

MODIFICATION TITLE: COST CODE

MIDS ON SHIP SHORE

DR010

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

MIDS is an advanced radio system providing information distribution, position location, and identification capability at high rates of speed, crypto-secure, and jam resistant.

MIDS Terminals are the result of a five-nation cooperative program to provide third generation Link 16 capability at a reduced size, reduced weight, and ultimately a lower cost.

Installation of MIDS on Ship at a shore installation (training site) does not require the installation of the associated antenna.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FRP

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)		D) (_		-		_		F) (0)	•	F) / 00	_	24.40	-		-		-	
	1 0	<u>PY</u>	. a. <u>F</u>	<u>Y 05</u>	1 0 E	<u>/ 06</u>		<u>′ 07</u>	FY 08		FY 09		<u>Y 10</u>		<u>′11</u>		<u>rc</u>	Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT:																			
Kit Quantity Installation Kits																			
Installation Kits Installation Kits Nonrecurring																			
Equipment	1	5.436																1	5.436
Equipment Nonrecurring	'	5.450																'	5.430
Engineering Change Orders																			
Data																			
Training Curriculum		0.865																	0.865
Production Support		0.435		0.050															0.485
Shore Pre-Installation Design																			51.55
Interm Contractor Support																			
Installation of Hardware*			2	1.035	2	0.976												4	2.011
PRIOR YR EQUIP																			
FY 03 EQUIP			2	1.035														2	1.035
FY 04 EQUIP					2	0.976												2	0.976
FY 05 EQUIP																			
FY 06 EQUIP																			
FY 07 EQUIP																			
FY 08 EQUIP																			
FY 09 EQUIP																			
FY 10 EQUIP																			
FY 11 EQUIP TC EQUIP																			
TOTAL INSTALLATION COST				1.035		0.976			<u> </u>										2.011
TOTAL PROCUREMENT COST		6.736		1.035		0.976													8.797
METHOD OF IMPLEMENTATION:		0.730	ADMINIS	TRATIVE L	FADTIME		2 MOS		P	RODUC	TION LEADTIME:	ļ	24 MOS					!	0.737
			, , , , , , , , , , , , , , , , , , , ,										2100						
	CONTRA	ACT DATES	:		FY 2004:	Mar-04			FY 2005:			FY 2006	:			FY 2007:			
	DELIVER	RY DATES:			FY 2006:	Mar-06			FY 2005:			FY 2006	:			FY 2007:			
					<u> 7 06</u>				FY 0					<u>/ 08</u>					
INSTALLATION SCHEDULE:	PY	_	1	2	3	4		1	2	3	4	1	2	3	4	_			
INPUT	2				2														
INPUT	2				2														
OUTPUT	2					2													
30.1.01	_					-													
					<u> </u>				FY 10					FY 11					
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	1	2	3	4	_	TC	-	<u>TOTAL</u>
INDUT																			4
INPUT																			4
OUTPUT																			4
																			•

Notes/Comments

^{1.} Total Quantity meets inventory objective.

MODIFICATION TITLE: COST CODE

MIDS ON SHIP FORWARD FIT

DR010

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

MIDS is an advanced radio system providing information distribution, position location, and identification capability at high rates of speed, crypto-secure, and jam resistant.

MIDS Terminals are the result of a five-nation cooperative program to provide third generation Link 16 capability at a reduced size, reduced weight, and ultimately a lower cost.

Shipboard installation of MIDS on Ship requires an AS-4127A and an AS-4400 antenna set.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FRP

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	<u>TC</u>		Total
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity											
Installation Kits Installation Kits Nonrecurring											
Equipment Equipment Nonrecurring	2 2.688									2	2.688
Engineering Change Orders Data											
Training Equipment Production Support	0.160	0.050									0.210
Other (DSA) Interm Contractor Support		0.477	0.080								0.557
Installation of Hardware* PRIOR YR EQUIP			2 2.031							2	2.031
FY 04 EQUIP FY 05 EQUIP			2 2.031							2	2.031
FY 06 EQUIP FY 07 EQUIP											
FY 08 EQUIP FY 09 EQUIP											
FY 10 EQUIP FY 11 EQUIP											
TC EQUIP											
TOTAL INSTALLATION COST			2.031								2.031
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	2.848	0.527	2.111 ADMINISTRATIVE L	EADTIME:	2 MOS	PRODUC	TION LEADTIME:	24 MOS			5.486
	CONTRACT DATES:	FY 2004:	Mar-04		FY 2005:		FY 2006:		FY 2007:		
	DELIVERY DATES:	FY 2006:	Mar-06		FY 2005:		FY 2006:		FY 2007:		
INSTALLATION SCHEDULE:	PY	1 2	<u>06</u> 3 4	1	<u>FY 07</u> 2 3	4	1 2 <u>FY</u>	<u>' 08</u> 3 4			
INPUT			2								
OUTPUT			2								
		<u>FY</u>	09		FY 10			<u>FY 11</u>			
INSTALLATION SCHEDULE:	-	1 2	3 4	1	2 3	4	1 2	3 4	TC		TOTAL
INPUT											2
OUTPUT											2

Notes/Comments

February 2006

^{1.} Total Quantity meets inventory objective.

^{2.} MIDS on Ship and AN/UYQ-86 (C2P/C2P(R)/CDLMS) are installed as a ship set.

UNCLASSIFIED February 2006

MODIFICATION TITLE: JOINT INTERFACE CONTROL OFFICER (JICO) SUPPORT SYSTEM (JSS) SHIP

COST CODE DR011

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Joint Interface Control Officer (JICO) Support System (JSS) will be the standard joint service toolset to plan, organize, manage, monitor and control Multi-TADIL network architectures.

JSS also provides interfaces and data to Global Command & Control System (GCCS) and Joint Planning Network (JPN) for collaborative planning and Common Operational Picture (COP).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PRE MS C FINANCIAL PLAN: (\$ in millions)

RDT&E
PROCUREMENT:
Kit Quantity
Installation Kits
Installation Kits Nonrecurring
Equipment
Equipment Nonrecurring
Engineering Change Orders
Data
Training Equipment
Production Support
Other (DSA)
Interm Contractor Support
Installation of Hardware*
PRIOR YR EQUIP
FY 05 EQUIP
FY 06 EQUIP
FY 07 EQUIP FY 08 EQUIP
FY 08 EQUIP FY 09 EQUIP
FY 09 EQUIP FY 10 EQUIP
FY 10 EQUIP
TC EQUIP
TOTAL INSTALLATION COST
TOTAL PROCUREMENT COST
METHOD OF IMPLEMENTATION:
S. S ELIMENTIATION.

<u>PY</u>		Y 05	FY			Y 07		Y 08		′ 09		<u>Y 10</u>	FY		<u>TC</u>	<u> 2</u>		<u>Fotal</u>
Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
					4	3.347	15	12.821	2	1.710							21	17.8
						0.251 0.217		0.716 0.888		0.175 0.381		0.061 0.036						1.20 1.52
							4	1.077	15	4.039	2	0.539					21	5.65
							4	1.077	15	4.039							4 15	1.07
											2	0.539					2	0.53
		\longrightarrow					-	1.077		4.039		0.539					-	5.6
						3.815		15.500		6.305		0.636					1	26.2
	· L	ADMINIST	RATIVE LE	EADTIME:	:	2 MOS			PRODUC	TION LEAD	OTIME:		12 MOS					
CONTRACT DATE	S:		FY 2004:				FY 2005:				FY 2006:				FY 2007:		Mar-07	
DELIVERY DATES:	:		FY 2004:				FY 2005:				FY 2006:				FY 2008:		Feb-08	
PY	1	<u>FY</u> 2	<u>06</u> 3	4	=	1	<u>F</u> 2	<u>Y 07</u> 3	4	_	1	<u>FY</u> 2	<u>′ 08</u> 3	4	_			
												1	2	1				
													1	2				
													·	_				

INSTALLATION SCHEDULE:	PY	1	2	3	4	1	2	3	4	•	1	2	3	4
INPUT												1	2	1
OLITRUIT													1	2

		FY	09			FY	10					FY 11				
INSTALLATION SCHEDULE:	1	2	3	4	 1	2	3	4	-	1	2	3	4	_	TC	TOTAL
INPUT		5	5	5		1	1									21
OUTPUT	1		5	5	5		1	1								21

Notes/Comments

^{1.} Total Quantity meets inventory objective.

UNCLASSIFIED February 2006

MODIFICATION TITLE: COST CODE

JOINT INTERFACE CONTROL OFFICER (JICO) SUPPORT SYSTEM (JSS) SHORE

DR011

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

JSS will be the standard joint service toolset to plan, organize, manage, monitor and control Multi-TADIL network architectures.

JSS also provides interfaces and data to Global Command & Control System (GCCS) and Joint Planning Network (JPN) for collaborative planning and Common Operational Picture (COP).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PRE MS C FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	D).	,	_		-		_		-		-		5 1	40	5)/		-	_		-
	Qty			<u>/ 05</u>		<u>′ 06</u>		<u>/ 07</u>		<u>′ 08</u>	I Qty	09	FY		FY Other		<u>I</u>		04.	<u>Total</u>
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders							3	2.510	2	1.709									5	4.220
Data Training Curriculum Production Support Shore Pre-Installation Design Interm Contractor Support								0.169 0.126 0.130		0.085 0.103		0.050 0.028								0.169 0.261 0.261
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP									3	0.632	2	0.422							5	1.054
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP									3	0.632	2	0.422							3 2	0.632 0.422
TOTAL INSTALLATION COST										0.632		0.422								1.054
TOTAL PROCUREMENT COST								2.935		2.530		0.500								5.965
METHOD OF IMPLEMENTATION:				ADMINIS	TRATIVE L	EADTIME:		2 MOS			PRODUC	TION LEAD	OTIME:		12 MOS					
	CONTRAC	T DATES	:		FY 2004:				FY 2005:				FY 2006:				FY 2007:	Mar-07		
	DELIVERY	DATES:			FY 2004:				FY 2005:				FY 2006:				FY 2008:	Feb-08		
INSTALLATION SCHEDULE:	PY		1	<u>F)</u> 2	<u>′ 06</u> 3	4		1	2 2	<u>' 07</u> 3	4		1	2 2	<u>′ 08</u> 3	4	_			
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OUTPUT															1	1				
INSTALLATION SCHEDULE:			1	<u>F)</u> 2	<u>′ 09</u> 3	4		1	<u>FY</u> 2	<u>′ 10</u> 3	4		1	2	<u>FY 11</u> 3	4		TC		TOTAL
INPUT				1	1															5
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Notes/Comments

^{1.} Total Quantity meets inventory objective.

CLASSIFICATION

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DR003	AN/UYQ-86 (C2P/C2P(R)/CDLMS) Forward Fit	04	1	2	2														1	1																	
DDOOO	NGC2P Field Change Kit Ship	04	Н.	_	_					_		Α					<u> </u>			_	_	1	1	_									_	_		┿	
DR003	NGC2P Fleid Change Kit Ship	06	1 :	_	5 6	-						А			-			-		1	1	-	A	_			-	1			1	1	2 .	1	1	+	
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DR003	NGC2P Field Change Kit Shore	06	· ·	1	1							i i								T		1	Α	T							1					\top	
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DR003	Air Defense System Integrator (ADSI) Ship	04			5									Α	1		2	2																		丄	
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DB003	Air Defense System Integrator (ADSI) Upgrade Ship	04	++;)	3	<u> </u>			_	+				Α			1	2					_			-	-	1 -	-					_	_	+	-
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DR003	Air Defense System Integrator (ADSI) Upgrade Shore	04	<u> </u>	1	1										Α				1																		
																																		_			
DR010	MIDS on Ship Shore	04	1	2	2																1	1												_		Щ.	
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DR010	MIDS on Ship Forward Fit	04		2	2											+					1	1	-	-	-			1						+	-	+	-
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DR011	JICO Support System Shore	07	1 :	3	3									-		1							_	1	1		1					Α		1	1	1	
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			PRODUCTION RATI	E		PROCUREMEN	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
AN/UYQ-86 (C2P/C2P(R)/CDLMS) Forward Fit	DRS, Wyndmoor, PA	1	1-8-5	3	2 months		18 months			
NGC2P Field Change Kit Ship (Note 1)	DRS, Wyndmoor, PA	1	1-8-5	3	2 months		9 months			
NGC2P Field Change Kit Ship (Note 1)	TBD	1	1-8-5	3	2 months		9 months			
NGC2P Field Change Kit Shore	TBD	1	1-8-5	3	2 months		9 months			
Air Defense System Integrator (ADSI) Ship	Ultra Electronics, Austin, TX	1	1-8-5	3	2 months		4 months			
Air Defense System Integrator (ADSI) Upgrade Ship	Ultra Electronics, Austin, TX	1	1-8-5	3	2 months		4 months			
Air Defense System Integrator (ADSI) Upgrade Shore	Ultra Electronics, Austin, TX	1	1-8-5	3	2 months		4 months			
MIDS on Ship Shore	DLS, Inc. Cedar Rapids, IA	1	1-8-5	4	2 months		24 months			
MIDS on Ship Forward Fit	DLS, Inc. Cedar Rapids, IA	1	1-8-5	4	2 months		24 months			
JICO Support System Ship	Northrop Grumman DMS, Reston, VA	1	1-8-5	4	2 months		12 months			
JICO Support System Shore	Northrop Grumman DMS, Reston, VA	1	1-8-5	4	2 months		12 months			

Note 1 Five NGC2P Field Change Kit Ship LRIP units were awarded to DRS in May 05. Follow-on LRIP and FRP units will be on a new contract that is TBD at this budget cycle.

UNCLASSIFIED CLASSIFICATION

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APPROP	RIATION/BUDGET ACTIVITY																TEM I																	SI	JBHI	EAD	NO.			
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DB003	NGC2P Field Change Kit Ship	06	+	25		25	 					1	4	4	4	4	4	4					_		-	H								_	-	+	+	+	+-	+
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DR003	NGC2P Field Change Kit Shore	07		2		2						2							t		t												-	_	\pm	+	+	+	+	十
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DR011	JICO Support System Ship	07		4		4					1	1	2																									T		T
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			PRODUCTION RAT	E		PROCUREMEN	IT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
NGC2P Field Change Kit Ship	TBD	1	1-8-5	3	2 months		9 months			
NGC2P Field Change Kit Shore	TBD	1	1-8-5	3	2 months		9 months			
JICO Support System Ship	Northrop Grumman DMS, Reston, VA	1	1-8-5	4	2 months		12 months			
JICO Support System Shore	Northrop Grumman DMS, Reston, VA	1	1-8-5	4	2 months		12 months			

UNCLASSIFIED

			BUDGET ITE	M JUSTIFICA	ATION SHEE	Т			DATE:			
										Februa	ry 2006	
APPROPRIATION/BUD	GET ACT	ΓΙVΙΤΥ					P-1 ITEM NOM	IENCLATURE			-	
OTHER PROCURE	MENT,	NAVY	BA-2: COM	MUNICATION	NS/ELECTRO	NICS	MI	NESWEEPIN	IG SYSTEM F	REPLACEME	NT BLI 2622	200
Program Element for Co	ode B Iten	ns:					Other Related I	Program Elemei	nts			
	06035	02N					PE 0204302	N				
	ID	Prior									То	
	Code	Years		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY												
EQUIPMENT COST												
(In Millions)	Α	N/A		\$52.989	\$82.934	\$75.442	\$50.810	\$76.836	\$87.047	\$115.352	CONT.	CONT.
SPARES COST												
(In Millions)	Α	N/A		\$4.1	\$2.9	\$2.0	\$0.7	\$1.9	\$3.1	\$1.6	CONT.	CONT.

PROGRAM DESCRIPTION/JUSTIFICATION:

Provide systems, subsystems, and engineering change kits for minehunting, navigation, and tactical display operations by the surface Mine Countermeasure (MCM) force. Engineering change kits improve reliability and maintainability and correct deficiencies to allow equipment to perform in accordance with operational requirements.

Remote Minehunting System (RMS) (LV064): The AN/WLD-1(V)1 system consists of a diesel powered semi-submersible Remote Minehunting Vehicle (RMV) that tows a Variable Depth Sensor (VDS, AN/AQS-20A). It also includes shipboard equipment consisting of a Command Control Combat System, Launch and Recovery System, radio antennas and support equipment. RMS will operate from the DDG-51 Class Flight IIA ships (DDG 91-96) and Littoral Combat Ships (LCS). The system determines the presence or absence of mines to an acceptable level of confidence to enable ships to operate in or avoid specific areas.

MCM/MHC Integrated Ship Control System (ISCS) (LV073): This program replaces the existing MHC Machinery Control System, which will bring all MHC ships to a common configuration and funds software integration upgrades to the MCM-1 class ships.

Force Protection Equipment (LV074): Provides Force Protection equipment for sailors to conduct maritime interdiction operations.

Mine Countermeasures Combat System Upgrades (LV075): The MCM Combat System Upgrades program consists of a series of incremental upgrades to the current combat system via Engineering Change Kits. The upgrades improve reliability and maintainability and correct deficiencies to allow the equipment to perform in accordance with operational requirements. The current planned upgrades include:

- -Acoustic Sweep Replacement replace the TB-26 and TB-27 with the Advanced Acoustic Generator/Infrasonic Advanced Acoustic Generator (AAG/IAAG) to solve obsolescence problems, reduce aft deck weight and improve performance.
- -AN/SQQ-32 Sonar Data Recorder upgrade the minehunting sonar on MCM ships, which will provide the capability to record, playback, display, detect and classify data for sonar contact recognition training.
- MCM Communication Upgrade upgrade and modernization of the communications systems for MCM ships.
- Supportability Engineering Changes upgrade and modernization of the combat systems upgrade to reduce emergent obsolescence and supportability issues such as OK520 Hydraulic Power Unit (HPU), SQQ-32 touch panel, SLQ-48 Power Distribution Unit (PDU), and Mine Countermeasure Navigation Command and Control (NAVCC) upgrade.
- MEDAL Expeditionary Systems Installation of MEDAL on board MCM Ships
- Global Command and Control System Maritime (GCCS M) Installation of GCCS M on board MCM Ships.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 50 PAGE NO. 1

DD Form 2454, JUN 86

CLASSIFICATION: UNCLASSIFIED

	BUDGET ITEM JUSTIFICATION SHEET		DATE:
	P-40 CONTINUATION		February 2006
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY	BA-2: COMMUNICATIONS / ELECTRONICS	MINESWEEPING	G SYSTEM REPLACEMENT/ 262200/72LV
ITEM DESCRIPTION / JUSTIFICATION (CO	NTINUED):		
Expendable Mine Neutralization System (EMNS	S) (LV076) will be a replacement to the existing AN/SLQ-48 Mine Neutra	alization System (MNS). The currer	nt program replaces the MNS with EMNS on the 14 MCM Avenger
Class Ships. EMNS will leverage off on-going e	fforts in the Airborne Mine Countermeasures Program, Airborne Mine Ne	eutralization System (AMNS).	

High-Frequency Wide Band (HFWB) (LV078): A technology upgrade to the SQQ-32 Towed Body which will incorporate HFWB technology into the detection sonar to address performance deficiencies against new mine

threats in the littorals. This upgrade will be installed on MCM-1 Class ships with the SQQ-32(V)3 and will develop a new transducer module, Fiber optic cable, modify topside processing and display software.

The Surface Mine Countermeasure Unmanned Undersea Vehicle (SMCM UUV) (LV079) will be launched and recovered from the Littoral Combat Ship, MCM, and MHC class ships. The SMCM UUV will autonomously navigate through the minefield to detect and classify new mine-like contacts or reacquire contacts of interest for further classification and identification. The SMCM UUV will also support environmental data gathering. The SMCM UUV is envisioned to be small (9-12.75" diameter) and capable of being handled by two people.

Unmanned Submersible Vehicle (USV) Sweep System (LV080): USV Sweep System is a magnetic/acoustic sweep system developed to sweep acoustic/magnetic influence mines from a small unmanned surface platform deployed from the Littoral Combat Ship (LCS).

Bow Thruster (LV081): This program replaces the hydraulic actuator with an electromagnetic actuator designed to eliminate inherent problems with MCM class ships Bow Thruster.

AFT Deck Equipment Upgrade (LV082): This program will install an inverter electric motor on the magnetic cable reel, acoustic cable reel, minesweeping winch and self contained hydraulic power unit on the stern crane.

Assessment and Identification of Mine Susceptibility (AIMS) (LV083): This program provides both CONUS and Forward-Area signature measurement capabilities for mine susceptibility assessments, calibrates the ship's degaussing systems, effectiveness of acoustic quiet bills, database archiving and data analysis of Class-wide signatures.

400HZ (LV084) - The 400Hz Motor Generator (MG) sets currently onboard the MCMs are mechanically unreliable. Funding will replace the existing 400 Hz MG sets with Static Frequency Converters (SFCs) to eliminate inherent problems with existing systems.

Magnetic Silencing Facility Upgrades (LV085): This program is for hardware, auxiliary. systems and support in association with the upgrade of the current aging CONUS Magnetic Silencing Facilities (MSF) so the calibration of the new Open-Loop Magnetic Systems or Advanced Degaussing System (ADS) ships can be accomplished for worldwide operation. The upgrade will also ensure that the MSF's and the ships/submarines will be able to meet OPNAV 8950.2G signature requirements.

P-1 SHOPPING LIST

ITEM NO. 50 PAGE NO. 2

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

CLASSIFICATION: UNCLASSIFIED

DD Form 2454, JUN 86

	BUDGET ITEM JUSTIFICATION SHEET		DATE:
	P-40 CONTINUATION		February 2006
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	,
OTHER PROCUREMENT, NAVY	BA-2: COMMUNICATIONS / ELECTRONICS	MINESWEEPIN	G SYSTEM REPLACEMENT/ 262200/72LV
ITEM DESCRIPTION / JUSTIFICATION (CO	ONTINUED) :		
	bat System Upgrades consisting of the following changes: Acoust pgrade - 3 systems, NAVCC upgrade ECP - 1 systems; 3 Remote		
	nbat System Upgrades consisting of the following changes: Acoust P - 3 systems; 4 Remote Minehunting Vehicles (RMV); 2 Variable		
	nbat System Upgrades consisting of the following changes: Acou P-5 system; 1 Remote Minehunting Vehicles (RMV); 1 Variable De		
Code "B" Items: RMS Systems, PE 0603502N			
	P-1 SHOPPING LIST	CLASSIFICAT	ION:

PAGE NO. 3

ITEM NO. 50

UNCLASSIFIED

	WEAPONS SYSTEM COS ⁻ P-5	T ANALY:	SIS		Weapon S	System							DATE: Februa	rv 2006
Other P	PRIATION/BUDGET ACTIVITY rocurement, Navy				ID Code		IOMENCLATU			NEGOCOC	- 01.17		1 000.00	. , _
BA-2: C	OMMUNICATIONS / ELECTRONICS		TOTAL COS	T IN THOUSANDS OF D	A OLLARS	MINESW	EEPING SY	SIEM REF	LACEME	N1/262200/	72LV			
COST	ELEMENT OF COST	ID	Prior	1 114 111000/11420 01 2			FY 2005			FY 2006			FY 2007	
CODE		Code	Years Total Cost			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
LV064	REMOTE MINEHUNTING SYSTEM (RMS)							<u>33.851</u>			<u>53,708</u>			<u>16,773</u>
	- Remote Minehunting Vehicle (RMS)					3	8,817	26,451	4	9,527	38108 *	1	9,357	9,357
	- Variable Depth Sensor (VDS AN/AQS-20A)					1	7,400	7,400	2	7,800	15,600	1	7,416	7,416
	- Enviromental Data Collection (EDC) Recorder							0			0			0
	- Obstacle Avoidance Sonar (OAS)							0			0			0
LV073	MCM/MHC INTEGRATED SHIP CONT SYS	А						<u>0</u>			<u>538</u>			<u>456</u>
	- MSCS							0			0			0
	- SOFTWARE INTEGRATION							0			538			456
LV074	FORCE PROTECTION EQUIPMENT	А						0			0			0
LV075	MCM COMBAT SYSTEMS UPGRADES					Var	Var	14,561	Var	Var	23,876	Var	Var	21,876
LV081	BOW THRUSTER IMPROVEMENT							0	Var	Var	400	Var	Var	910
LV082	AFT DECK EQUIPMENT UPGRADE							0			0	Var	Var	10,339
LV083	AIMS							0			296			1,046
LV084	400HZ							0			1,140			1,000
LV085	Magnetic Silencing Facility Upgrades							<u>0</u>			<u>0</u>			14,457
	- MSF Norfolk Treatment Upgrade							0			0	1	Var	14,457
TOTAL	1 2446, JUN 86	1	0	P-1 SHOPP				48,412			79,958 CLASSIFICA			66,85

P-1 SHOPPING LIST
ITEM NO. 50 PAGE NO. 4

	WEAPONS SYSTEM (P-5		YSIS			Weapon S	system							DATE: Februa	ry 2006
Other Pr	RIATION/BUDGET ACTIVITY Ocurement, Navy					ID Code			IRE/SUBHEAD						
BA-2: C	OMMUNICATIONS / ELECTRONICS		TOTAL 000	T IN THOU	SANDS OF DO	A	MINESW	EEPING SY	STEM REP	LACEME	NT/262200/	72LV			
				I IN THOUS	SANDS OF DO	LLAKS									
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2005			FY 2006			FY 2007	
CODE		Code	Total Cost				Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
LV830	PRODUCTION ENGINEERING								2.511			1.516			7 22
LV830	- RMS								<u>2,511</u> 1,710			<u>1,516</u> 788			<u>7,323</u>
	- MCM COMBAT SYS								801			728			932
	- Magnetic Silencing Facility Upgrades								0			0			5,733
LV900	CONSULTING SERVICES								<u>366</u>			<u>1,460</u>			<u>1,262</u>
	- RMS								0			793			56
	- MCM COMBAT SYS								366			667			69
LVCA1	SEA BOTTOM MAPPING								1,700			0			
TOTAL			0						52,989			82,934			75,44

UNCLASSIFIED

BUDGET PROCUREME	ENT HISTO	RY AND P	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
								Feb	ruary 200	6
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, Na	•									
BA-2: COMMUNICATION	NS / ELEC	CTRONICS	}	ī		ING SYSTEM REPLACE	MENT/2		72LV	DATE.
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FISCAL YEAR 05										
LV064 RMV	3***	8817 ****	LM, Syracuse	7/05	FPI	Lockheed Martin (LM) , Syracuse	9/05	8/06	YES	11/04
LV075 MCM Comb Sys	VAR*	VAR*	NAVSEA/ NSWC CRANE/ CSS/NAVAIR	N/A	wx	VARIOUS	VAR**	VAR**	YES	11/04
FISCAL YEAR 06 LV064 RMV LV075 MCM Comb Sys		9527 **** VAR*	LM, Syracuse NAVSEA/ NSWC CRANE/ CSS/NAVAIR	N/A N/A	FFP WX	LM, Syracuse VARIOUS	3/06 VAR**	10/07 VAR**	YES NO	11/05 11/05
LV081 Bow Thruster	VAR	VAR	NSWC, PHIL	10/05	FFP	TBD	2/06	7/06	NO	7/05
FISCAL YEAR 07 LV064 RMV LV075 MCM Comb Sys		9357 **** VAR*	LM, Syracuse NAVSEA/ NSWC CRANE/ CSS/NAVAIR	N/A N/A	FFP WX	LM, Syracuse VARIOUS	11/06 VAR**	05/08 VAR**	YES NO	11/06 11/06
LV081 Bow Thruster LV082 Aft Deck Equip LV 085 MSF Norfolk Treatment Upgrade		VAR VAR VAR	NSWC, PHIL NSWC, PHIL NAVSEA/NSWC	N/A 10/06 10/06	FFP FFP WX/RX	TBD TBD VARIOUS	10/06 3/07 12/06	3/07 8/07 9/08	NO NO NO	7/05 8/05 02/07

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 50 PAGE NO. 6 UNCLASSIFIED

^{*} SEE SYSTEM DESCRIPTION ON P-40 FOR MORE DETAILS

^{**} Dates of award and delivery vary based on when ECPs are submitted and approved.

^{***} FY 05 - Procurement of 3 RMVs and 1 VDS (AQS-20A) for DDG-51.

^{***} FY 06 - Procurement of 4 RMVs and 2 VDS (AQS-20A) for DDG-51.

^{***} FY 07 - Procurement of 1 RMVs and 1 VDS (AQS-20A) for DDG-51.

^{****} FY05 RMV unit cost is low due to availability of long lead items remaining from the EDM contract.

^{****} FY05, 06, and 07 RMV unit cost is for the RMV cost only.

FY 2004/05 BUDGET PRODUC			DUL	E, P-2	1												DATE			Fe	bru	iary	/ 20	06					
APPROPRIATION/BUDGET AC OTHER PROCUREMENT,												Wea					Min	ITE esw							nent	/262	200/	/72L	.V
						Pro	oduct	tion I	Rate	:	Prod	curer	men	t Lea	ad-ti	mes	;												
		Man	nufactu	ırer's							AL	T Pr	ior	AL	T Af	ter		Initia	1	R	eord	ler					Un	it of	
Item	1	Name	and L	ocatio	n	MSR	1-	8-5	M	ΑX	to	Oct	1	(Oct 1		M	fg Pl	Т	M	fg P	LT		Tota	al		Mea	sure	Э
LV064 RMV	LM, S	Syracu	ıse, N	Υ		1	4		12								18			18			18			EAG	ЭН		
LV085 MSF Upgrades	NSW	CCD,	Bethe	esda N	/ld	TBD	ТВІ	D	TBE)		TBC)		TBE)	TBI)		TBI)		TBI)					
LV085 MSF Upgrades				sh. D.		TBD	TBI	D	TBE)		TBD)		TBE)	TBE)		TBI)		TBI)					
																											<u> </u>		
									FISC	CAL Y	EAR 2										FISC		EAR						l
ITEM / MANUFACTURER	F Y	S V	Q T	D E	B A	2004						CALEN	IDAR	YEAR										1	EAR 2				В
	ĭ	C	Y	L	L	O N C O T V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	JUL	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	A L
LV064 RMV	05	N	3	0	3											Α											1		2
LV064 RMV	06	N	4	0	4																	Α							4
																													1
							ı		FISC	CAL Y	EAR 2	2007									FISC	CAL Y	EAR	2008					
ITEM / MANUFACTURER	F	S	Q	D	В	2006	5				C	CALEN	IDAR	YEAR	200	7						CA	LEND	AR Y	EAR 2	800			1
	Υ	V	T Y	E	Α	O N		J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	٦	J	Α	S	B A
		С	Y	L	L	C O	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	L
LV064 RMV	05	N	3	1	2				1				1																0
LV064 RMV	06	N	4	0	4												1	1	1	1									0
LV064 RMV	07	N	1	0	1	Α																		1			<u> </u>		0
LV085 MSF Norfolk Treatment Upgrade	07	N	1	0	1		Α																					1	0
																													L
Remarks:																													

DD Form 2445, JUL 87

311 / 244

Previous editions are obsolete

P-1 SHOPPING LIST

ITEM NO. 50 Page 7

UNCLASSIFIED

			BUDGET ITE	M JUSTIFICA	ATION SHEE	Т			DATE:			
				P-40						Februa	ry 2006	
APPROPRIATION/BUD	GET ACT	TIVITY					P-1 ITEM NOM	IENCLATURE			-	
OTHER PROCURE	MENT,	NAVY	BA-2: COM	MUNICATION	NS/ELECTRO	NICS	SHALLOW \	WATER MCM	I BLI 262	400/72SW		
Program Element for Co	de B Iten	ns:					Other Related I	Program Elemer	nts			
	06035	02N					PE 0204302	N				
	ID	Prior									То	
	Code	Years		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY												
EQUIPMENT COST												
(In Millions)	В	N/A		0.000	2.247	8.269	9.037	14.706	13.961	18.039	CONT.	CONT.
SPARES COST												
(In Millions)		N/A		\$0.0	\$0.0	\$0.3	\$0.4	\$0.4	\$0.0	\$0.0	CONT.	CONT.

PROGRAM DESCRIPTION/JUSTIFICATION:

This program provides for a combination of US Navy projects planned to counter the threat to amphibious landing forces from known and projected foreign land/sea mines, obstacles in the beach zone and surf zone approaches to amphibious assault areas. It is a system of systems (Countermine/Counter Obstacle, Intelligence/Surveillance/Reconnaissance/Targeting (ISR/T), Navigation/Virtual Marking/Integration, C4I/Data Fusion) to provide a full assault breaching capability. This program is an essential element to the Marine Corps' Ship To Objective Maneuver (STOM) Concept of Operations.

Landing Craft Utility (LCU) Navigation Upgrade (SW003): Modernized the navigation system to enable safe transit through the breached lane.

Landing Craft Air Cushion (LCAC) Autopilot Upgrade (SW061): An integrated improvement to the LCAC (Service Life Extension Program (SLEP) craft only) navigation system for craft control that allows precise navigation and hovering within the breached lane. (Upgrade software and backfit)

Coastal Battlefield Reconnaissance and Analysis (COBRA) (SW004): Is the Intelligence, Surveillance, Reconnaissance/Targeting (ISR/T) part of the Assault Breaching System (ABS) of systems. One System consists of two Airborne Payloads and one processing station. There are three blocks in the COBRA spiral development; Block I is daytime, surface-laid mine and obstacle line detection in the Beach Zone, Block II is beach and surf zone day and night detection and Block III will detect buried mines and will include on-board near real time processing of imagery data. COBRA will be integrated into the Firescout Unmanned Aerial Vehicle (UAV) and will be part of the Littoral Combat Ship (LCS) mission module for LCS Flight 0 in FY07.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 51 PAGE NO. 1

UNCLASSIFIED

DD Form 2454, JUN 86

	WEAPONS SYSTEM CO P-5	OST AN	ALYSIS			Weapon Sy	stem							DATE: Februar	y 2006
Other Pr	RIATION/BUDGET ACTIVITY rocurement, Navy OMMUNICATIONS / ELECTRONICS					ID Code B		OMENCLATU			w				
			TOTAL COST	T IN THOUS	ANDS OF DO	LLARS									
COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 2004			FY 2005			FY 2006			FY 2007	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
SW003	LCU NAVIGATION UPGRADES	В										794			755
SW004	COBRA	В										<u>0</u>			6,000
	SW0041 COBRA BLOCK 1	В										0	2	2,500	5,000
	SW00411 BLOCK 1 FAT, SPARES, TRAINING	В										0			1,000
SW061	LCAC AUTOPILOT UPGRADES	В								VAR	VAR	970	VAR	VAR	1,000
SW830	PRODUCTION ENGINEERING	В										483			514
TOTAL	2446. JUN 86		0		P-1 SHOPPIN	IG LIST			0			2,247 CLASSIFICA			8,269

UNCLASSIFIED

BUDGET PROCUREM	ENT HISTO	RY AND P	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
						, ,		Fe	bruary 2006	
B. APPROPRIATION/BUDGET					C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement, N	-									
BA-2: COMMUNICATION	ONS / ELEC	CTRONICS	•	1		WATER MCM/2624	00	DATE OF	72SW	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FISCAL YEAR 07										
SW0041 COBRA BLOCK 1	2	2500	NSWC, PC Florida	10/06	RX	Northrop Grumman Melbourne, Fl	11/06	05/08	NO	N/A
D. DEMARKS										
D. REMARKS										

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87 UNCLASSIFIED ITEM NO. 51 PAGE NO. 3

FY 2004/05 BUDGET PRODUCT			DULE	E, P-21	1													DATI			F	ebru	uary	200)6					
APPROPRIATION/BUDGET ACT OTHER PROCUREMENT,													Wea	por	Sys	stem						ENC TER				00/72	 2SV	v		
							Pro	duct	ion l	Rate		Prod	curer	men	t Lea	ad-ti	mes)												
Item	١		nufactu and L	ırer's ocatio	n	M	SR	1-8	8-5	M	٩X		T Pr Oct			T Af Oct			Initia fg Pl			eord			Tota	ıl			it of asure	
SW0041 BLOCK 1	١	Northr		umma	n	2		12		12			4			2						12			18			EA	<u> </u>	<u> </u>
SW0042 BLOCK 2 SW0043 BLOCK 3			TBD TBD																											
																												<u> </u>		
ITEM / MANUFACTURER	F	0	Q	D	В		0005			FISC	CAL Y	EAR :		10 4 0	VEAG	2 000	0					FISC		EAR		TAD 0	2007			
TIEM/ MANOFACTURER	Y	S V C	T Y	E L	A L	O C T	2005 N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	YEAR J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
SW0041 BLOCK 1	07	N	2	0	2														Α											2
										FISC	CAL Y	EAR :	2008									FISC	CAL Y	EAR	2009					
ITEM / MANUFACTURER	F	S	Q	D -	В	:	2007					(CALEN	IDAR	YEAR	200	8						CA	LEND	AR YI	EAR 2	009			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
SW0041 BLOCK 1	07	N	2	0	2								2																	0
																												_		
Remarks:							IT	EM N	IO 51	P	AGF	4															<u> </u>			

CLASSIFICATION

BUDGET ITEM JUSTIFIC	ATION SHE	ET					DATE			Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & EL		PMENT			P-1 ITEM NOM NAVSTAR GPS					SUBHEAD 521R	
			FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY											
			\$11.1	\$14.5	\$13.3	\$14.3	\$13.9	\$14.2	\$18.5	Cont.	Cont.

The NAVSTAR GPS mission is to provide US and allied land, sea, and air forces with precise, continuous, world-wide Position, Velocity and Time (PVT).

PROGRAM COVERAGE: Navigation Sensor System Interface (NAVSSI) is a surface ship based system that integrates shipboard positioning, navigation and timing data and distributes the processed output to user systems and networks. NAVSSI provides position, velocity, time and almanac data to onboard command and control systems in real time with Global Positioning System (GPS) as the primary source of positioning, navigation and timing data. The navigation team uses an automated work station that includes automated planning functions and the use of Digital Nautical Charts (DNC). NAVSSI uses Non-Developmental Item (NDI) hardware and a combination of commercial off the shelf (COTS) and government developed software. The GPS VME (Versa Module Europa) Receiver Card (GVRC) replaces the 17 card AN/WRN-6 GPS receiver with a single card and is hosted within NAVSSI.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: Procurement and installation of Navigation Sensor System Interface (NAVSSI) is required to provide Global Positioning System (GPS) and other positioning, navigation and timing sensor data to ship-board C4ISR, Combat, and Weapons Systems. NAVSSI provides the required positioning, navigation and timing data for the calculation and display of electronic charts. NAVSSI is the only available system that performs the full functions of collection, integration, and distribution of positioning, navigation and timing data. Precision positioning, navigation and timing data is required to allow a common and correlated ship-to-ship tactical and operational picture. NAVSSI ensures precise Strike and Theater Ballistic Missile Defense (TBMD) weapon systems to have the necessary navigational data. Failure to procure and install NAVSSI would result in loss of critical navigation data required by Combat and Weapons Systems.

FY 2005 funding procures 5 NAVSSI systems and 3 NAVSSI retrofit kits and installation of 4 NAVSSI systems, and 4 NAVSSI retrofits.

FY 2006 funding procures 3 NAVSSI systems and 3 NAVSSI retrofits kits and installation of 6 NAVSSI systems, and 4 NAVSSI retrofits.

FY 2007 funding procures 6 NAVSSI systems and 1 NAVSSI retrofit kits and installation of 6 NAVSSI systems, and 2 NAVSSI retrofits.

Installations are being done for each class/ship through the preparation of ship alteration proposals and ship alteration records. Installation Agent: Installation teams and/or overhaul - to be determined for each ship during execution.

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)	DA	TE February 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE NAVSTAR GPS BLI 2657	SUBHEAD 521R

PROGRAM COVERAGE: Navigation Warfare (NAVWAR) ensures that U.S. military and allied forces maintain access to the Global Positioning Service (GPS) in an electronically challenged battle space, delivers the capability to deny adversaries access to and use of GPS during military operations, and serves to preserve the peaceful use of GPS.

- · NAVWAR counters the threat by increasing resistance to intentional or unintentional interference
- · Navy NAVWAR Strategy: Near Term Install GPS anti-jam antennas in all platforms; Long Term Install modernized receivers that will further increase resistance to interference, and that will receive M-code, a new, enhanced military exclusive GPS signal.
- · Navy NAVWAR requirements The Navy GPS Enhanced User Equipment (UE) Operational Requirements Document dated 07 June 2000 directs that future UE will incorporate an increased anti-jam capability.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: Procurement and installation of anti-jam GPS antennas and modernized user equipment and prevention equipment is required to ensure the continued utility of GPS signals from space in a hostile jamming environment. The NAVWAR program will equip selected ships and submarines with anti-jam GPS antennas (GAS-1/ADAP) and other GPS Modernization enhancements to ensure the continued availability of GPS to support surface and subsurface combat operations and provide reliable GPS and other positioning, navigation and timing data to ship-board C4ISR, Combat, and Weapons Systems.

FY 2005 will continue with the procurement of 40 GAS-1 systems with groundplanes and the installation of 42 units.

FY 2006 will continue with the procurement of 35 GAS-1 systems with groundplanes and the installation of 39 units.

FY 2007 will continue with the procurement of 29 ADAP systems with groundplanes and the installation of 41 GAS-1 units.

Installations are being done for each class/ship through the preparation of ship alteration proposals, ship alteration records and ship change documents (SCDs). Installation Agent: Installation teams and/or overhaul - to be determined for each ship class during execution.

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)	DATE	February 2006
		SUBHEAD 521R

PROGRAM COVERAGE: The primary Global Positioning System (GPS) shipboard receivers fielded on the majority of U.S. Navy ships today include the AN/WRN-6 and the GPS VME Receiver Card (GVRC). These military GPS receivers provide precise Position, Velocity, and Time (PVT) data required for many combat weapons and navigation systems, as well as providing the time synchronization critical to the networked environments. The failure of the GPS receiver ultimately means the loss of GPS for the ship and those systems that depend upon it. As a result of parts obsolescence and production lines for both WRN-6 and GVRC no longer being available, the WRN-6 Non Recurring Engineering tasks will include engineering modifications to extend the life of the WRN-6 and GVRC while associated development efforts (funded separately) for a new GPS shipboard receiver is accomplished that will incorporate the newest GPS security architecture and be upgradeable to function with the future GPS signals in space with YMCA capability (Modernized shipboard GPS with Y-code (Encrypted), M-Code (Modernized) and C/A-Code (Course Acquisition). Engineering modifications to WRN-6 would require fielding to limited WRN-6 Navy shipboard and shore users; while fielding of GVRC modifications would be required only for NAVSSI new construction ships. Additional procurements beginning in FY11 will procure Modernized WRN-X once development efforts (funded separately) are complete.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: Procurement of WRN-6/GVRC upgrade kits/replacement cards are required to provide Global Positioning System (GPS) data to shipboard C4ISR, Combat, and Weapons Systems, including the Navigation Sensor System Interface (NAVSSI) and NAVSSI Lite systems.

FY 2006 funding procures Non-recurring engineering (NRE) required for the WRN-6 & GVRC Upgrade / Obsolescence Engineering Change Proposals (ECPs). Includes upgrade planning, procurement of approximately 25 upgrade/modification kits.

FY 2007 funding procures 20 additional upgrade/modification kits.

Installation funding is not required for WRN 6 upgrades. Upgraded units will be delivered to ships as existing units fail.

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2006
	P-1 ITEM NOMENCLATURE NAVSTAR GPS BLI 2657		SUBHEAD 521R

PROGRAM COVERAGE: The Joint Service Air Force contract under which Precision Light GPS Receiver (PLGRs) were procured has expired. The GPS Joint Program Office replacement for PLGR is DAGR (Defense Advanced GPS Receiver). The award for DAGR procurement occurred in October 2003. Rockwell Collins, the manufacturer of PLGR has stated that they will no longer manufacture or supply PLGRs. Navy PLGRs, first purchased in 1999 were procured with a 6-year warranty. Warranties for the initial procurement of Navy PLGRs will have expired by the 4th Qtr of FY-05. Since January 2003, the demand for PLGR replacement/repair has doubled to 23 units per quarter. All Navy PLGRs are expected to fail and require replacement before FY-2010. The GWOT has increased the need for the use of handheld GPS navigation receivers by Naval Special Warfare Forces (SEALS). There is a total population of over 4000 Navy PLGRs. A requirement has been established for replacement of 2577 PLGRs beginning in FY06. DAGR will be a SAASM compliant handheld GPS receiver.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: Budget year requirements will provide managed introduction of the DAGR handheld GPS receiver into the Navy (or Coast Guard) inventory. The Navy will develop or put in place the necessary ILS management processes/procedures (training, spares, management of inventory, repair procedures) to support the DAGRs. Fleet introduction of SAASM capable handheld GPS receivers will be supported. Naval ground in-shore combat support, engineering & construction, mine warfare, and SEAL users will experience no loss of situational awareness. SAR and special operations insertion/extraction operations will maintain precision advantage and littoral mine hunting/mine avoidance.

FY06 will be the first year of procurement of 182 units FY07 will continue with the procurement of 125 units

DAGR is a GPS Handheld receiver and requires no installation funding.

UNCLASSIFIED CLASSIFICATION

DATE **COST ANALYSIS** February 2006 APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE **SUBHEAD** 521R OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT NAVSTAR GPS BLI 2657 TOTAL COST IN THOUSANDS OF DOLLARS FY 2005 FY 2006 FY 2007 COST UNIT TOTAL UNIT UNIT TOTAL ID **TOTAL** QTY QTY QTY CODE **ELEMENT OF COST** CODE COST COST COST COST COST COST 1R555 Production Support NAVSSI FMP 912 309 Production Support NAVSSI Retrofit 227 65 31 Production Support NAVWAR 928 623 436 Production Support WRN 6 Upgrade 88 70 Production Support Handhelds 53 55 1R009 NAVSSI FMP 5 440 2,200 3 450 1,350 450 2,700 NAVSSI - Schools Α 1R011 NAVSSI - Retrofit Α 3 195 585 3 250 750 250 250 1R012 NAVSSI - Land Based Test Upgrades Α 1R013 NAVWAR Α 40 2,614 35 87 3,054 29 93 2,684 WRN 6 Upgrade 1R016 Α 25 1.000 20 41 820 GPS Handhelds 182 637 1R018 437 1R777 Installation 3,681 6.589 5,730 Install - NAVSSI FMP 2,700 2,640 1,335 Install - Design Service Agent (NAVSSI FMP) 444 657 580 Install - NAVSSI Retrofit 336 600 260 Install - Design Service Agent (NAVSSI Retrofit) 70 108 140 - NAVSSI Schools Install Install - NAVWAR 1.126 2.040 1.738 Install - Design Service Agent (NAVWAR) 370 484 372 TOTAL 11,147 14,520 13,291

Note 1: NAVSSI - 1R009 and 1R011 Unit cost is the average cost of hardware on different classes of ships. Variances from year to year result from these different configurations and ship availability schedule changes.

Note 2: NAVWAR - 1R013-Baseline GAS-1 procurement is combined Navy OPN/APN buy with unit price determined by quantity/year ordered. Unit cost per year also reflects multiple hardware configurations.

FY2005 begins procurement of 2 Ground Plane Assemblies per ship (several classes) and the Fiber Optic Antenna Link and GAS-1 to GVRC/NAVSSI interface.

FY2006 and the next several years reflect lower triservice procurements; this increases the estimated unit costs.

Note 3: NAVWAR - Procurement of ADAP (Advance Digital Antenna Production) antennas begins in FY2007 for all surface ship classes; FY2006 is final year of GAS-1 procurements for surface ship classes.

Note 4: GPS Handhelds - Represent established procurement costs (basic unit and accessories).

Note 5: NAVWAR Installation costs rising due to platform complexities.

Note 6: All unit costs are rounded to the nearest \$K.

UNCLASSIFIED CLASSIFICATION

A. DATE PROCUREMENT HISTORY AND PLANNING February 2006 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD 521R OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT NAVSTAR GPS BLI 2657 CONTRACTOR CONTRACT DATE **SPECS** DATE RFP COST **ELEMENT OF COST** FY AND **METHOD** LOCATION ISSUE **AWARD OF FIRST** QTY UNIT AVAILABLE REVISIONS CODE LOCATION OF PCO COST & TYPE DATE DATE Delivery NOW **AVAILABLE** 1R009 NAVSSI 05 Various WX/RCP Various Various Nov-04 Mar-05 5 440.000 Yes 06 Various WX/RCP Various Various Nov-05 Mar-06 3 450,000 Yes 07 Various WX/RCP Various 450.000 Various Nov-06 Mar-07 6 Yes 1R011 NAVSSI - Retrofit 05 WX/RCP Nov-04 Various Various Various 3 195.000 Yes Mar-05 06 Various WX/RCP Various Various Nov-05 Mar-06 3 250.000 Yes 07 Various WX/RCP Various Various Nov-06 Mar-07 1 250.000 Yes 1R013 NAVWAR Hardware 04 FFP GPS JPO/SSC-SD Various Apr-04 Feb-05 44 69,159 Yes 05 Various FFP GPS JPO/SSC-SD Feb-05 Oct-05 40 65.350 Yes 06 FFP GPS JPO/SSC-SD 35 87.257 Various Jan-06 Oct-06 Yes GPS JPO/SSC-SD 07 Various FFP Jan-07 Oct-07 29 92.552 Yes 1R016 WRN 6 Upgrade 06 WRLC/TYAD/SSC WX/RCP Feb-06 25 40.000 Various Various Aug-06 No 07 WRLC/TYAD/SSC WX/RCP Various Various Feb-07 Aug-07 20 41.000 No 1R018 GPS Handhelds 06 Rockwell Collins FFP **GPS JPO** Feb-06 Aug-06 182 3.500 Yes **GPS JPO** 07 Rockwell Collins FFP Feb-07 Aug-07 125 3.496 Yes

D. REMARKS

Note 1: NAVSSI retrofit costs vary by configuration.

Note 2: NAVWAR costs are strongly affected by estimated exchange rate and Joint Service Requirements fluctuations.

MODIFICATION TITLE: NAVSTAR Global Positioning System (GPS) (521R) NAVSSI FMP February 2006

COST CODE:

MODELS OF SYSTEMS AFFECTED:

All models of ships will have NAVSTAR GPS

DESCRIPTION/JUSTIFICATION: The NAVSTAR Global Positioning System (GPS) is a joint Service Program which will provide advance satellite positioning. The ultimate system will consist of a constellation

of satellites, control/tracking network, and user equipment installed aboard a variety of airborne, shipborne and land-based platforms.

With the advent of Over the Horizon - Targeting (OTH-T), it is imperative that all ships continuously know their geographic position to correlate sensor data and prevent escort

ships from becoming unwilling targets. To meet this need, the Navigation Sensor System Interface (NAVSSI) program was initiated. NAVSSI will

distribute position, velocity, time and almanac data to onboard command and control and combat systems in real time with GPS as the primary source of navigation data.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

THATTOME TEATH. (\$ III TIIIIIO13)	PY				FY05		FY06		FY07		FY08		FY09		FY10		FY11		TC		TOTAL	
RDT&E	Qty	\$			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
ROTAE PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support	113	33.7			5	2.2	3	1.4	6	2.7	5	2.3	2	0.9	3	1.4	0	0.0	0	0.0	0 0 0 137 0 0 0	0.0 0.0 0.0 44.5 0.0 0.0 0.0 0.0 8.5
Other (DSA)		2.5				0.9		0.3		0.6		0.1		0.1		0.1		0.0			0	5.0
Interim Contractor Support Installation of Hardware PRIOR YR EQUIP	110 110	27.6 27.6			4 3	1.3 1.0	6	2.7	6	2.6	5	2.2	3	1.4	3	1.3	0	0.0	0	0.0	0 137 113 0	0.0 39.1 28.6 0.0
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP					1	0.3	4 2	1.8 0.9	1 5	0.4 2.2	1 4	0.4 1.8	1 2	0.5 0.9	3	1.3					5 3 6 5 2 3 0	2.1 1.3 2.6 2.2 0.9 1.3 0.0
TC EQUIP TOTAL INSTALLATION COST		30.1				1.8		3.4		3.2		2.6		1.7		1.4		0.0		0.0	137	0.0 44.1
TOTAL PROCUREMENT COST		70.7				4.9		5.0		6.0		5.0		2.7		2.8		0.0		0.0		97.1
METHOD OF IMPLEMENTATION:										ADMINI	STRATIV	/E LEAD	TIME:		1	PRODUC	TION LEA	AD TIME	:	4		
	CONT	RACT	DATES:			FY 2004:		Nov-03	F	Y 2005:		Nov-04		-	FY 2006:		Nov-05	1	FY 2007:		Nov-06	
	DELIV	ERY D	ATES:			FY 2004:		Mar-04	F	Y 2005:		Mar-05		I	FY 2006:		Mar-06		FY 2007:		Mar-07	
INSTALLATION SCHEDULE:	PY	_						1	<u>FY</u> 2	<u>06</u> 3	4	-	1	2 <u>F</u>	<u>Y 07</u> 3	4		1	<u>FY</u> 2	<u>08</u> 3	4	
INPUT	114							3	2	0	1		1	1	2	2		1	2	1	1	
OUTPUT	114							3	2	0	1		1	1	2	2		1	2	1	1	
INSTALLATION SCHEDULE:			1	2 <u>F</u>	<u>Y 09</u> 3	4	_	1	2 <u>FY</u>	10 3	4		1	2 E	Y 11 3	4	_		<u>TC</u>		<u>TOTAL</u>	
INPUT			1	1	1	0		0	1	1	1										137	
OUTPUT			1	1	1	0		0	1	1	1										137	

Notes/Comments:

Note 1: Any savings from decreasing quantities has been reprogrammed to cover increasing installation and DSA costs.

Exhibit P-3a, Individual Modification Program

MODIFICATION TITLE: NAVSTAR Global Positioning System (GPS) (521R) NAVSSI Retrofit

COST CODE:

1R011

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

All models of ships will have NAVSTAR GPS

FY05

FY06

The NAVSTAR Global Positioning System (GPS) is a joint Service Program which will provide advance satellite positioning. The ultimate system will consist of a constellation

of satellites, control/tracking network, and user equipment installed aboard a variety of airborne, shipborne and land-based platforms.

FY07

With the advent of Over the Horizon - Targeting (OTH-T), it is imperative that all ships continuously know their geographic position to correlate sensor data and prevent

escort ships from becoming unwilling targets. To meet this need, the Navigation Sensor System Interface (NAVSSI) program was initiated. NAVSSI will

distribute position, velocity, time and almanac data to onboard command and control and combat systems in real time with GPS as the primary source of navigation data.

FY08

FY09

FY10

FY11

TC:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	PY				FY05		FY06		FY07		FY08		FY09		FY10		FY11		TC		TOTAL	
	Qty	\$			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity																					0	0.0
Installation Kits Installation Kits Nonrecurring Equipment	61	5.0			3	0.6	3	0.8	1	0.3	4	1.0	10	2.5	8	2.0	17	4.3			0 0 107	0.0 0.0 16.3
Equipment Nonrecurring Engineering Change Orders	01	3.0			5	0.0		0.0	'	0.5	7	1.0	10	2.0	O	2.0	''	4.0			0	0.0 0.0
Data Training Equipment Production Support		3.3				0.2		0.1		0.0		0.0		0.2		0.2		0.3			0 0 0	0.0 0.0 4.3
Other (DSA) Interim Contractor Support		1.5				0.1		0.1		0.1		0.3		0.4		0.6		0.3			0	3.4 0.0
Installation of Hardware PRIOR YR EQUIP	60 60	4.7 4.7			4 3	0.3 0.3	4	0.6	2	0.3	4	0.5	8	1.1	10	1.4	17	2.4	0	0.0	109 63	11.3 5.0
FY 04 EQUIP FY 05 EQUIP					1	0.1	2	0.3													0 3	0.0 0.4
FY 06 EQUIP FY 07 EQUIP							2	0.3	1 1	0.1 0.1		0.5									3	0.4
FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP											4	0.5	8	1.1	2	0.3 1.1					4 10 8	0.5 1.4 1.1
FY 11 EQUIP TC EQUIP																	17	2.4			17 0	2.4 0.0
TOTAL INSTALLATION COST		6.2				0.4		0.7		0.4		0.8		1.5		2.0		2.7		0.0	109	14.7
TOTAL PROCUREMENT COST		14.5				1.2		1.5		0.7		1.8		4.2		4.1		7.2		0.0		35.3
METHOD OF IMPLEMENTATION:										ADMIN	ISTRATI	/E LEAD	TIME:		1	PRODUC	CTION LE	AD TIME	:	4		
	CONT	TRACT [DATES:			FY 2004:		Nov-03	F	Y 2005:		Nov-04		F	FY 2006:		Nov-05	!	FY 2007:		Nov-06	
	DELIV	/ERY D/	ATES:			FY 2004:		Mar-04	F	Y 2005:		Mar-05		F	FY 2006:		Mar-06	I	FY 2007:		Mar-07	
INSTALLATION SCHEDULE:	PY							1	2 <u>FY</u>	<u>06</u> 3	4		1	2 <u>E</u>	<u>Y 07</u> 3	4		1	2 <u>FY</u>	<u>′ 08</u> 3	4	
INPUT	64	=						2	1	1	0	•	1	1	0	0	-	0	2	1	1	
OUTPUT	64							2	1	1	0		1	1	0	0		0	2	1	1	
				E\	<u> </u>				FY	10				F	<u>Y 11</u>				<u>TC</u>		TOTAL	
				F	1 09																<u>10171</u>	
INSTALLATION SCHEDULE:		-	1	2	3	4	-	1	2	3	4	-	1	2	3	4	_					
INSTALLATION SCHEDULE:		-	0	3	3	2	-	2			3		0	6	3 6	<u>4</u> 5	-		<u></u>		109	

Notes/Comments:

Note 1: Any savings from decreasing quantities has been reprogrammed to cover increasing installation and DSA costs.

Exhibit P-3a, Individual Modification Program

Unclassified Classification

February 2006

TOTAL

MODIFICATION TITLE: COST CODE:

MODELS OF SYSTEMS AFFECTED:

LCACs, MCMs, all CGs, DDGs,FFGs, all CV/CVN, LHAs, LPDs, LSDs and all SSNs and SSGNs will be equipped with Anti-Jam Antennas.

DESCRIPTION/JUSTIFICATION: Procurement and installation of anti-jam GPS user equipment and prevention equipment is required to ensure the continued utility of GPS signals from space in a hostile jamming environment.

The NAVWAR program will equip selected ships and submarines with anti-jam GPS antennas and other GPS Modernization enhancements to ensure the continued availability of GPS

to support surface and subsurface combat operations and provide reliable GPS and other navigation sensor data to ship-board C4ISR, Combat, and Weapons Systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																						
	PY		i		FY05	_	FY06		FY07		FY08		FY09		FY10	_	FY11	_	TC		TOTAL	
RDT&E	Qty	\$			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																					0 0 0	0.0 0.0 0.0
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	76	4.5			40	2.6	35	3.1	29	2.7	44	3.4	36	2.5	45	3.0	28	2.3	295	8.1	628 0 0 0	32.2 0.0 0.0 0.0 0.0
Production Support Other (DSA)		0.7 0.5				0.9 0.4		0.6 0.5		0.4 0.4		0.5 0.4		0.4 0.6		0.5 0.6		0.5 0.6			0	4.6 3.9
Interim Contractor Support Installation of Hardware PRIOR YR EQUIP	29 29	1.4 1.4			42 42	1.1 1.1	39 5	2.0 0.4	41	1.7	29	1.4	44	2.3	36	1.9	45	2.7	323	6.9	0 628 76	0.0 21.5 2.9
FY 05 EQUIP FY 06 EQUIP							34	1.7	6 35	0.7 1.1											0 40 35	0.0 2.4 1.1
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP											29	1.4	44	2.3	36	1.9	45	2.7	28	1.8	29 44 36 45 28	1.4 2.3 1.9 2.7 1.8
TC EQUIP																			295	5.1	295	5.1
TOTAL INSTALLATION COST		1.9				1.5		2.5		2.1		1.8		2.9		2.5		3.3		6.9	628	25.5
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		7.1				5.0	l	6.2		5.2 ADMINI	STRATIV	5.7 /E LEAD	TIME:	5.8		6.0 PRODU	TION LE	6.1		15.0 9		62.2
METHOD OF IMILELINERY THORSE	CONT	TRACT I	DATES:			FY 2004:		Apr-04	F	Y 2005:	0110111	Feb-05		·	Y 2006:	. Kobo	Jan-06		 FY 2007:	Ü	Jan-07	
	DELI	/ERY D	ATES:			FY 2004:		Feb-05	F	Y 2005:		Oct-05		F	Y 2006:		Oct-06	ı	FY 2007:		Oct-07	
										06					Y 07				<u>FY</u>			
INSTALLATION SCHEDULE:	PY	_						1	2	3	4		1	2	3	4		1	2	3	4	
INPUT	71							10	10	10	9		10	10	10	11		7	7	7	8	
OUTPUT	71							10	10	10	9		10	10	10	11		7	7	7	8	
INSTALLATION SCHEDULE:			1	2 E	<u>Y 09</u> 3	4	_	1	<u>FY</u> 2	<u>10</u> 3	4	<u>.</u>	1	2 <u>F</u>	<u>Y 11</u> 3	4	_		<u>TC</u>		TOTAL	
INPUT			11	11	11	11		9	9	9	9		11	11	11	12			323		628	
OUTPUT			11	11	11	11		9	9	9	9		11	11	11	12			323		628	

UNCLASSIFIED CLASSIFICATION

								PR	ODU	ICTI	ON S	CHE	EDU	LE														DAT	E		Fel	oruar	y 200	6
																							(DOD	EXHI	BIT P	-21)								
APPROP	RIATION/BUDGET ACTIVITY													EM NO															S	UBH	IEAD	NO.		
OP,N - B	A2 COMMUNICATIONS & ELECTRONIC EQU	IPMENT										١	NAVS	TAR G	PS BL	_I 265	57												5	21R				
			S		ACCEP	BAL		AL YEAR	0	5								F	ISCAL	YEAR		06							FISCA	L YE	AR	07		
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1R009	NAVSSI																																	
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1R011	NAVSSI - Retrofit																																	
		05		3	3																													
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1R013	NAVWAR Hardware																																	
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		07		29		29																						Α						
1R016	WRN 6 Upgrade	06		25		25													Α					2	2	2	2 2	2	2	2	2 2	2	3	
		07		20		20																							Α					2 2
1R018	GPS Handhelds	06		182		182													Α					15	15 1	5 1	5 15	15	15	15	15 1	5 16	16	
		07		125		125																							Α					13 13
		•		•											OCT	NOV	DEC	JAN	FEB MAR	APR	MAY	JUN	JUL	AUG	SEP O	CT N	OV DEC	JAN	FEB I	MAR /	APR MA	Y JUN	I JUL	AUG SEF

			RODUCTION RATE			PROCUREMEN	T LEAD TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
NAVSSI	ACS	1	25	50						
NAVSSI	RCI	1	25	50						
NAVWAR	RSL, UK	250	480	1272						
WRN 6 Upgrade	WRLC/TYAD	1	2	5						
WRN X	TBD									
GPS Handhelds	Rockwell Collins	1	119	2500						

P-1 Shopping List-Item No - 52 - 10 of 11

Exhibit P21 - Production Schedule Unclassified Classification

UNCLASSIFIED CLASSIFICATION

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APPROF	PRIATION/BUDGET ACTIVITY														P-	1 ITEI	M NO	MEN	CLA	TURE	Ξ												S	UBH	IEAD	NO.			
OP,N - B	A2 COMMUNICATIONS & ELECTRON	IIC EQUIPMENT													N/	AVSTA	AR G	PS BI	LI 26	57														21R					
			s		ACCEP	BAL	_	FISC		AR	0	8									F	SCAL	YEAR		09							!	FISCA			10			
COST	ITEM/MANUFACTURER			PROC	PRIOR	DUE	_	CY	_							YEAR		08						_	ENDA				09			Ь		_	NDAR			10	
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1R009	NAVSSI														_	_	1					+		1								-	+	+	+	+	+	+	+
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1R011	NAVSSI - Retrofit																																						
		05		3	3																																		
		06		3	3																																	I	Ī
		07		1	1																											\sqcup		\perp	\perp	ᆚ	┷	Ш	
1R013	NAVWAR Hardware																															\vdash		_		_		┷	
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1R016	WRN 6 Upgrade	06		25	25	29			3	2		3	_	2 3	,	3 3		+	1													r t	-+	+	-	+	+	+	+
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1R018	GPS Handhelds	06		182	182	<u> </u>	Ť		-	_	_	_	_		-	- -	1					+		1									-	+	_	+	+	+	1
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		F	PRODUCTION RATE	E		PROCUREMEN	T LEAD TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
NAVSSI	ACS	1	25	50						
NAVSSI	LITTON	1	25	50						
NAVWAR	RSL, UK	250	480	1272						
WRN 6 Upgrade	WRLC/TYAD	1	2	5						
WRN X	TBD									
GPS Handhelds	Rockwell Collins	1	119	2500						

P-1 Shopping List-Item No - 52 - 11 of 11

UNCLASSIFIED

		BUD	GET ITEM JUSTIFICA	TION SHEE	Т			DATE:			
			P-40						Februa	ry 2006	
APPROPRIATION/BUI	DGET ACTIVIT	Υ				P-1 ITEM NOM	ENCLATURE				
OTHER PROCURE	EMENT, NA	VY/BA-2 Cor	nmunications and El	ectronic Equ	ıipment	Armed	Forces Radi	o and TV Ser	vice/BLI: 266	6600 - Subhea	ad 82K0
Program Element for C	ode B Items:					Other Related F	Program Eleme	nts			
	Prior	ID								То	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY											
COST											
(In Millions)	\$26.1		\$4.1	\$4.3	\$4.5	\$4.6	\$4.7	\$4.4	\$4.4		\$31.0
SPARES COST											_
(In Millions)											\$0.0

PUC K0001: AFRTS Program - AFRTS shipboard entertainment systems provide improved quality of life at sea and at overseas shore bases. These systems contribute significantly to the habitability of Navy ships by providing and distributing news, command information, training, and entertainment programming using the latest technology available. These systems improve morale, combat effectiveness and retention rates of deployed personnel. All AFRTS systems use Commercial-Off-the-Shelf (COTS) equipment. Naval Media Center (NAVMEDIACEN) Fleet Support Detachments (FSDs) are the Installing agents for these systems. Each system installation is made based on ship availability and coordinated through the TYCOM's. The AFRTS program consists of the following systems:

(a) SITE CCTV - 2000/500: This SITE system is designed for aircraft carriers (CV/CVN). It is used to playback videocassettes and compact discs distributed by AFRTS and NMPS over four channels on a cable distribution system. This system also allows for the production of training tapes and command information programs. Systems are designed to interface with pier side cable systems where available. Requires manpower of two dedicated technicians and three operators. A total of seven systems required at an estimated unit cost of \$406.8K. Five units were procured in FY03 and prior. The remaining two (2) units were procured in FY04 through FY 05. Each system requires three to ten months lead time to procure and install. SITE 2000/500 includes Television Direct-to-Sailor (TV-DTS) below decks equipment used to receive and distribute satellite programming onboard U.S. Navy ships. TV-DTS is a joint effort with SPAWAR. SPAWAR is procuring the above decks equipment (satellite dishes) and NAVMEDIACEN is responsible for bringing the signal from the satellite receiver and distributing it throughout the ship.

SITE CCTV - Digital/500: is the next generation of the SITE 2000/500 project beginning in FY 2006. A total of seven (7) SITE CCTV - Digital/500 units will be procured.

(b) SITE 2000/400 - This SITE system is designed for large amphibious and auxiliary ship classes (AGF/AOE/AS/LCC/LHA/LHD/LPD/LSD). Same as SITE 2000/500 system, with the exception of studio production capability and lesser editing capability. Requires manpower of one dedicated technician and operator. A total of 30 systems are required at an estimated unit cost of \$229.6K. Twenty four units were procured in FY03 and prior. The remaining six (6) units were procured in FY04 through FY 05. Each system requires two to eight months lead time to be procured and installed. SITE 2000/400 includes Television Direct-to-Sailor (TV-DTS) below decks equipment used to receive and distribute satellite programming onboard U.S. Navy ships. TV-DTS is a joint effort with SPAWAR. SPAWAR is procuring the above decks equipment (satellite dishes) and NAVMEDIACEN is responsible for bring the signal from the satellite receiver and distributing it throughout the ship.

SITE CCTV - Digital/400 is the next generation of the SITE 2000/400 project beginning in FY 2006. A total of twenty-eight (28) SITE CCTV - Digital/400 units will be procured.

P-1 SHOPPING LIST

ITEM NO. 53 PAGE NO. 1

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION		February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment	Armed Forces Radio and	d TV Service/BLI: 266600 - Subhead 82K0

(c) SITE 2000/300 - This SITE system is designed for smaller combatants ship classes (CG/DD/DDG/FFG). This system is used primarily for playback of AFRTS and NMPS cassettes over two channels. Capable of producing simple local programs for training and command information. Requires manpower of one dedicated technician who also serves as operator. A total of 106 systems are required at an estimated unit cost of \$93.6K. Seventy two units were procured in FY03 and prior. The remaining 34 units will be procured in FY04 through FY 06. Each system requires two to eight months lead time to procure and install. SITE 2000/300 includes Television Direct-to-Sailor (TV-DTS) below decks equipment used to receive and distribute satellite programming onboard U.S. Navy ships. TV-DTS is a joint effort with SPAWAR. SPAWAR is procuring the above decks equipment (satellite dishes) and NAVMEDIACEN is responsible for bring the signal from the satellite receiver and distributing it throughout the ship.

SITE CCTV - Digital/300 is the next generation of the SITE 2000/300 project beginning in FY 2006. A total of (83) SITE CCTV - Digital/300 units will be procured.

(d) SITE 2000/200 - Compact system used to playback AFRTS and NMPS cassettes over two channels on submarines (SSN/SSBN). Capable of making simple recordings for training and command information. Requires no dedicated technician or operator. A total of 50 systems are required at an estimated unit cost of \$62.0K. Thirty six units were procured in FY03 and prior. The remaining fourteen units were procured in FY04 through FY05. Each system requires two to eight months lead time to procure and install.

SITE CCTV - Digital/200 is the next generation of the SITE 2000/200 project beginning in FY 2006. A total of (42) SITE CCTV - Digital/200 units will be procured.

(f) Integrated Radio Frequency Distribution System (IRFDS - Circuit 27TV): provides ship-wide transmission of news, command information, training and entertainment programming to sailors while at sea. The IRFDS receives audio and video signals from the SITE and TV-DTS systems and distributes the signals to all installed shipboard receivers. The IRFDS brings together the various independent distribution systems and integrates them onto a single transport medium for distribution throughout the ship This system replaces the unsupportable Circuit 14TV. IRFDS is a COTS system. IRFDS procurement also includes the purchase of equipment to integrate all television displays onto one distribution system. Total of 106 systems are required. An average unit cost to engineer, furnish and install is \$291.8K. Each system requires a three to ten months lead time to be procured and installed. The following ship classes require the total of 106 IRFDS units: CG, CV/CVN, DD, DDG, FFG.

PUC K0INS: This funding supports the installation of SITE, TV-DTS, and IRFDS systems onboard Navy ships. Installations are performed by Naval Media Center Fleet Support Detachments and are based on TYCOM nominations.

P-1 SHOPPING LIST

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CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

UNCLASSIFIED

	WEAPONS SYSTE		NALYSIS	Weapon	System		DATE:											
Other P	PRIATION/BUDGET ACTIVITY rocurement, Navy			ID Code		NOMENCLATU	:/00K0	February 2006										
BA-2 Co	ommunications and Electronic Ed	quipment	TOTAL COST IN THOU	SANDS OF DOLLARS	BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0													
COST	ELEMENT OF COST	ID Code	Prior Years			FY 2005			FY 2006									
			Total Cost		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost					
	SUBMARINES (N77)																	
K0001	SITE CCTV - 2000/200	Α	2462.1		7	58.9	412											
K0001	SITE CCTV - DIGITAL/200							6	71.8	431.0	6	74.5	447.0					
	SURFACE SHIPS (N76)																	
K0001	SITE CCTV - 2000/300	А	6653.5		14	93.8	1,312.8	5	97.2	486.0								
K0001	SITE CCTV - DIGITAL/300							6	106.5	639.0	10	112.9	1,129.0					
K0001	SITE CCTV - 2000/400	А	5223.5		3	233.0	699.0						,					
K0001	SITE CCTV - DIGITAL/400							4	245.9	983.6	4	269.2	1,076.8					
K0001	IRFDS - (Circuit 27TV)	А	5880.3		4	292.1	1,168.2	4	299.6	1,198.4	4	308.8	1,235.2					
	AIRCRAFT CARRIES (N78)																	
K0001	SITE CCTV - 2000/500	A	2243.0		1	387.0	387.0											
K0001	SITE CCTV - DIGITAL/500							1	404.0	404.0	1	417.0	417.0					
KOINS	Equipment Installation (NON-FMP)	A	1129.0				162.0			167.0			176.0					
	Equipment installation (NOTETIME)		1123.3				102.0			107.0			110.0					
	Total NAVSEA (AFRTS) 1 2446. JUN 86	D 4 011	23,591.4 OPPING LIST				4,141.0			4,309.0 CLASSIFICA	TION		4,481.0					

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

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UNCLASSIFIED

CLASSIFICATION:

	WEAPONS S	Weapon S	ystem	DATE:													
					F	06											
	PRIATION/BUDGET ACTIVITY Procurement, Navy	ID Code	P-1 ITEM I	NOMENCLAT	URE/SUBHI	EAD											
	ommunications and Electronic		BLI 266	600 - Arm	ed Force	s Radio	and TV S	ervice/82k	(0 - Subl	head 82k	(0						
							1										
COST	ELEMENT OF COST		EV 2000			FY 2009			FY 2010		-	FY 2011		To C.		Т.	otal
CODE	ELEMENT OF COST	FY 2008				F1 2009			FY 2010		FY 2011			To Complete		Total	
		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
	SUBMARINES (N77)																
K0001	SITE CCTV - 2000/200																
K0001	SITE CCTV - DIGITAL/200	6	76.3	458	6	78.0	468.0	6	79.7	478.0	6	81.2	487.0				
	SURFACE SHIPS (N76)																
K0001	SITE CCTV - 2000/300																
K0001	SITE CCTV - DIGITAL/300	10	115.2	1152.0	10	117.9	1179.0	10	117.9	1179.0	10	120.3	1203.0				
K0001	SITE CCTV - 2000/400	10	110.2	1102.0	10	117.5	1175.0	10	117.5	1175.0	10	120.0	1200.0				
K0001	SITE CCTV - DIGITAL/400	4	274.7	1098.6	4	280.9	1123.4	4	277.8	1111.0	4	282.0	1128.0				
	IRFDS - (Circuit 27TV)	4	315.6	1262.4		320.9	1283.6	3	321.0	963.0		323.0	969.0				
K0001	IRPDS - (Circuit 271V)	4	313.0	1202.4	4	320.9	1203.0	3	321.0	963.0	3	323.0	909.0				
	AIRCRAFT CARRIES (N78)																
K0001	SITE CCTV - 2000/500																
K0001	SITE CCTV - DIGITAL/500	1	426.0	426.0	1	436.0	436.0	1	444.0	444.0	1	454.0	454.0				
10001	SITE COTY BIGHTNESSO	'	420.0	420.0		430.0	430.0	'	444.0	444.0	'	404.0	404.0				
KOINS	Equipment Installation (NON-FMP)			179.0			182.0			<u>187.0</u>			<u>190.0</u>				
		4,672.0			4,362.0			4,431.0									
UD FORM	1 2446, JUN 86		P-1 SHOPPI	NG LIST									CLASSIFICA	ATION:			

UNCLASSIFIED

BUDGET PROCUREN	MENT HISTO	RY AND	PLANNING EXHIBIT	(P-5A)		Weapon System	A. DATE						
							February 2006						
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NOME	ENCLATURE		SUBHEAD					
Other Procurement, I	Navy				266600 - Arm	ed Forces Radio & T\	AFRTS)	82	82K0				
BA-2 Communication	s and Elect	ronic Equ	uipment				•						
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE			
FY 05													
SITE CCTV - 2000/200	7	58.9	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	1/05	YES				
SITE CCTV - 2000/300	14	93.8	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	1/05	YES				
SITE CCTV - 2000/400	3	233.0	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	1/05	YES				
SITE CCTV - 2000/500	1	387.0	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	2/05	YES				
IRFDS - (Circuit 27TV)	4	292.1	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	2/05	YES				
FY 06													
SITE CCTV - Digital 200	6	71.8	T-ASA/Navmediacen		MIPR/RCP	Various	12/05	2/06	YES				
SITE CCTV - 2000/300	5	97.2	T-ASA/Navmediacen		MIPR/RCP	Various	12/05	1/06	YES				
SITE CCTV - Digital 300	6	106.5	T-ASA/Navmediacen		MIPR/RCP	Various	12/05	2/06	YES				
SITE CCTV - Digital 400	4	245.9	T-ASA/Navmediacen		MIPR/RCP	Various	12/05	2/06	YES				
SITE CCTV - Digital 500	1	404.0	T-ASA/Navmediacen		MIPR/RCP	Various	12/05	2/06	YES				
IRFDS - (Circuit 27TV)	4	299.6	T-ASA/Navmediacen		MIPR/RCP	Various	12/05	2/06	YES				
FY 07													
SITE CCTV - Digital 200	6	74.5	T-ASA/Navmediacen		MIPR/RCP	Various	12/06	2/07	YES				
SITE CCTV - Digital 300	10	112.9	T-ASA/Navmediacen		MIPR/RCP	Various	12/06	2/07	YES				
SITE CCTV - Digital 400	4	269.2	T-ASA/Navmediacen		MIPR/RCP	Various	12/06	2/07	YES				
SITE CCTV - Digital 500	1	417.0	T-ASA/Navmediacen		MIPR/RCP	Various	12/06	2/07	YES				
IRFDS - (Circuit 27TV)	4	308.8	T-ASA/Navmediacen		MIPR/RCP	Various	12/06	2/07	YES				

D. REMARKS

⁽¹⁾ In addition to hardware, SITE CCTV total cost includes production engineering and integration.

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BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0

TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy						SITE CCTV-2000 / K0001							C. DATE											
				BA-2						<u> </u>						Fe	February 2006												
	1	FY 200	3	4	1	FY 200	05 3	4	1	FY 200)6 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	LATER
																													_
ACTIVE FORCE INVENTORY (P)	5	7	7	6	6	7	7	6	5	5																			
SCHOOLS/OTHER TRAINING																													
OTHER																													
TOTAL PHASED REQ	5	12	19	25	31	38	45	51	56	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
ASSETS ON HAND (P)	5																												
DELIVERY FY 03 & PRIOR FY 03 & PRIOR																													
FY 04 (Procured 26 units) (C)		7	7	12																									
FY 05 (Procure 25 units) (C)						7	7	11																					
FY 06 (Procure 5 units) (C)										5																			
FY 07 (C)																													
FY 08 (C)																													
FY 09 (C)																													
FY 10 (C)																													
FY 11 (C)																													
To Complete (C)																													
TOTAL ASSETS (C)	5	12	19	31	31	38	45	56	56	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
QTY OVER (+) OR SHORT (-)	0	0	0	6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS	1		E.		RQMT	(QTY)			192	TOTAL	RQM	T 192	INSTAL	LED	ONI	HAND	0	FY	3 & PR	IOR	0	UNFL	INDED	0					
Installations determined by TYCOM Nominations	tallations determined by TYCOM Nominations			APPN	1 -								13	31															
		2																				4							
					APPN - PROCUREMENT LEAD TIME					ADMIN IN 2 Months			INITIAL ORDER 1 Month				REOR	REORDER 1 Month											

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BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0

BLI 200000	TIN	ME PHASED R PPLEMENT S	EQUIRI	EMENTS SCH	EDULE	Subnead 82KU	P-1 ITE	EM NOMENCLATUR	DATE									
	•		P-23		ŕ		SITE	CTV-2000 / K00	001				February 2006					
APPROPRIATION Other Procu	ırement		ctronic	Fauinment				Installing Agent	t				l					
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR				
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY			
			F	Y 2004			FY 2005											
CG 59 CG 72 DDG 51 LSD 52 SSN 690	1 1 1 1 1	CG 58 CG 60 DDG 58 DDG 61 LHA 1 SSN 721 SSN 724	1 1 1 1 1 1	CG 69 DDG 54 DDG 64 DDG 65 LHA 4 SSN 722 SSN 754	1 1 1 1 1 1	CG 56 CG 67 CVN 72 DDG 56 SSN 723 SSN 752	1 1 1 1 1	CG 70 DDG 57 DDG 72 DDG 74 LSD 46 SSN 759	1 1 1 1 1 1 1	DDG 59 1 DDG 68 1 DDG 75 1 DDG 77 1 DDG 84 1 SSN 717 1 SSN 773 1		DDG 76 DDG 78 DDG 79 DDG 81 LSD 52 SSN 760 SSN 771	1 1 1 1 1 1 1	CVN 75 DDG 73 DDG 80 LHD 5 SSN 755 SSN 705	1 1 1 1 1			
			F	Y 2006							•							
DDG 63 DDG 83 DDG 85 LSD 44 SSN 708	1 1 1 1 1	DDG 86 DDG 87 LPD 17 LSD 45 SSN 701	1 1 1 1 1															

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CLASSIFICATION:

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BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0

TIME PHASED	REQUIREMENT SCH	IEDULE					A. AP	PROPR	IATION	/BUDGE	T ACT	IVITY			B. P-1	ITEM N	OMEN	CLATU	RE				C. DA	\TE			1				
	P-23 Other Procurement, Navy SITE CCTV - Digital / K0001																														
							BA-					-						_					Fe		ary 2	006					
				FY 200			_	FY 20				FY 20				FY 200				FY 200				FY 20			1	FY 20		_	LATER
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INV	/ENTORY	(P)							6	5	6	6	5	5	5	6	5	5	5	6	5	5	5	6	5	5	5	6	5	5	60
SCHOOLS/OTHER	TRAINING																														
OTHER																															
TOTAL PHASED RE	EQ		0	0	0	0	0	0	6	11	17	23	28	33	38	44	49	54	59	65	70	75	80	86	91	96	101	107	112	117	177
ASSETS ON HAND		(P)																													
DELIVERY FY 03 & FY 03 & PRIOF																															
FY 04		(C)																													
FY 05		(C)																													
FY 06	(Procure 17 units)	(C)							6	11																					
FY 07	(Procure 21 units)	(C)										6	5	10																	
FY 08	(Procure 21 units)	(C)														6	5	10													
FY 09	(Procure 21 units)	(C)																		6	5	10									
FY 10	(Procure 21 units)	(C)																						6	5	10					
FY 11	(Procure 21 units)	(C)																										6	5	10	
To Complete		(C)																													55
TOTAL ASSETS		(C)	0	0	0	0	0	0	6	17	17	23	28	38	38	44	49	59	59	65	70	80	80	86	91	101	101	107	112	122	177
QTY OVER (+) OR S	SHORT (-)		0	0	0	0	0	0	0	6	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0	5	0	0	0	5	0
D. REMARKS			<u> </u>	<u> </u>	E.	<u> </u>	RQMT	(QTY)	<u> </u>	<u> </u>	0	TOTA	L RQM	T 160	INSTAL	LED	ON	HAND	0	FY (03 & PF	RIOR	0	UNF	JNDED	C)	<u> </u>	<u> </u>		1
Installations det	termined by TYCOM N	ominations				105:										0				UNI	DELIVE	RED					_				
					1.	APPN																					_				
					2.	APPN																									
					3.	PROC	CUREMI	ENT LE	AD TIM	E			ADMII 2 M	N Ionths		INITIA	L ORDI 1 N	ER Ionth				REOR		/lonth							

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BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0

BLI 200000	TIM	ME PHASED R PPLEMENT S	EQUIR	EMENTS SCH	EDULE	Subnead 82KU	P-1 ITE	EM NOMENCLATUR	E/PROJE	CT UNIT			DATE		
	(00	T I EEMERT O	P-23		· DATA,			SITE CCTV - D	igital/ K	0001				February 2006	6
Other Proc	uremen	GET ACTIVITY t, Navy ions and Elec	ctronic	Fauinment			<u> </u>	Installing Agent	t						
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	•		F	Y 2006							FY 2	2007	•		•
	AOE 1 1 CVN 73 DDG 90 1 ARS 53 DDG 71 1 DDG 92 LHD 2 1 LHA 5 SSN 715 1 SSN 21 SSN 758 1							DDG 94 DDG 95 DDG 91 LHD 1 SSN 750 DDG 89	1 1 1 1 1 1 1	AOE 3 DDG 93 DDG 99 LSD 48 SSN 766 SSN 772	1 1 1 1 1	CG 57 DDG 70 DDG 98 LHD 4 SSN 770	1 1 1 1 1	CVN 76 DDG 96 DDG 97 SSN 716 SSN 718	1 1 1 1 1
			F	Y 2008					•		FY 2	2009	•		•
ARS 52 CG 52 DDG 60 DDG 67 SSN 767	1 1 1 1 1	AOE 4 CG 64 DDG 62 DDG 66 LHD 3 SSN 768	1 1 1 1 1 1	ARS 50 CG 66 DDG 53 LSD 49 SSN 753	1 1 1 1 1	CVN 68 CG 65 CG 68 LSD 43 SSN 756	1 1 1 1	CG 61 CG 71 DDG 55 LSD 49 SSN 761	1 1 1 1 1 1	CG 55 CG 63 CG 73 LHA 3 SSN 720 SSN 769	1 1 1 1 1	CG 53 DDG 88 DDG 54 LSD 42 SSN 22	1 1 1 1 1 1	CG 54 CVN 69 LHD 7 SSN 725 SSN 764	1 1 1 1 1 1

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CLASSIFICATION:

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BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0

BLI 200000	TIN	ME PHASED RI	EQUIR	EMENTS SCH	DULE	Subileau 62NU	P-1 ITE	M NOMENCLATUR	E/PROJE(CT UNIT			DATE		
	(50	IPPLEMENT SH	P-23		DATA)			SITE CCTV - D	igital/ K	0001				February 2006	3
APPROPRIATION Other Procu	ıremen		rtronic	Fauinment				Installing Agent							
1ST QTR		2ND QTR	, ti Oilic	3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			F	Y 2010							FY 2	2011			
DDG Class SSN Class	G Class 4 DDG Class 2 DDG Class 2 DDG Class						2 1 2	DDG Class SSN Class	4 1	DDG Class LPD Class SSN Class	2 2 2	DDG Class LPD Class CVN Class SSN Class	2 1 1 1	DDG Class CVN Class SSN Class	2 1 2
	ı	1					1					<u> </u>			

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CLASSIFICATION:

BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0

	REQUIREMENT SCI							PROPR	IATION	l/BUDG	ET ACT	IVITY			B. P-1	ITEM N	OMEN	CLATU	RE				C. DA	TE			1								
	P-23						Oth	er P	rocu	reme	ent, I	Navy	,		IRF	DS (Circu	ıit 27	7TV)	- K0	0001														
							BA-																Fe	brua		006									
			1	FY 20	04 3	4	1	FY 200)5 3	4	1	FY 20	06 3	4	1	FY 200	7	4	1	FY 20	08	4	1	FY 200)9 3	4	1	FY 20°	10	4	1	FY 20 ⁻	11	4	LATER
					ľ	4	_ '		3	4	ı'		3	7			Š	4	L'		ď	7			3	4	L'		3	4			3	4	
ACTIVE FORCE INV	/ENTORY	(P)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	45
SCHOOLS/OTHER 1	TRAINING																																		
OTHER																																			
TOTAL PHASED RE	Q		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	28	29	30	31	76
ASSETS ON HAND			1																																
DELIVERY FY 03 & FY 03 & PRIOF																																			
FY 04	(Procure 4 units)	(C)		1	1	2																													
FY 05	(Procure 4 units)	(C)						1	1	2																									
FY 06	(Procure 4 units)	(C)										1	1	2																					
FY 07	(Procure 4 units)	(C)														1	1	2																	
FY 08	(Procure 4 units)	(C)																		1	1	2													
FY 09	(Procure 4 units)	(C)																						1	1	2									
FY 10	(Procure 3 units)	(C)																										1	1	1					
FY 11	(Procure 3 units)	(C)																														1	1	1	
To Complete		(C)																																	45
TOTAL ASSETS			1	2	3	5	5	6	7	9	9	10	11	13	13	14	15	17	17	18	19	21	21	22	23	25	25	26	27	28	28	29	30	31	76
QTY OVER (+) OR S	SHORT (-)		0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
D. REMARKS					E.		RQMT	(QTY)		106		TOTA	L RQM	1 106	INSTAL	30	ON	HAND	0		03 & PR		0	UNFU	INDED	0									
Installations det	termined by TYCOM N	ominations			1.	APPN	1 -								\vdash					UNI	DELIVE	NED					1								
	•				2	APPN	1.								₩					_				 			-								
					<u>د.</u> ع		UREM	FNTIF	ΔD TIM	F			ADMIN	J	<u> </u>	INITIA	L ORDI	-R			1	REOR	DER				4								
					J.	i noc	JUNLIVII	L.W. LE	ווווו שא	· L				onths		II WILLIAM		onths				ALOR		onth											

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BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0

	TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A APPROPRIATION/BUDGET ACTIVITY							M NOMENCLATUR		CT UNIT			DATE	February 2006	6
Other Procu	urement		ctronic	: Fauinment				Installing Agent							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	•		F	Y 2004	•		•				FY 2	2005			
CG 57	1	CG 71	1	DDG 66	1	DDG 73	1	DDG 76	1	DDG 72	1	DDG 54	1	DDG 51	1
			F	Y 2006							FY 2	2007			
DDG 57	1	DDG 77	1	DDG 59	1	DDG 53	1	DDG 55	1	DDG 58	1	DDG 62	1	DDG 56	1

P-1 SHOPPING LIST

ITEM NO. 53 PAGE NO. 11

CLASSIFICATION:

UNCLASSIFIED

BLI 266600 - Armed Forces Radio and TV Service/82K0 - Subhead 82K0

	TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A APPROPRIATION/BUDGET ACTIVITY							M NOMENCLATUR		CT UNIT			DATE	February 2006	6
Other Procu	rement		tronic	: Equipment			<u> </u>	Installing Agent N/A							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			F	Y 2008			•				FY 2	009			
DDG Class	1	DDG Class	1	DDG Class	1	DDG Class	1	DDG Class	1	DDG Class	1	DDG Class	1	DDG Class	1
			F	Y 2010							FY 2	011			
DDG Class	1	DDG Class	1	DDG Class	1	DDG Class	1			DDG Class	1	DDG Class	1	DDG Class	1

P-1 SHOPPING LIST

ITEM NO. 53 PAGE NO. 12

CLASSIFICATION:

		BUDGE	T ITEM JUS	TIFICATION S	SHEET			DATE:				
			P-4	10					ı	February 200	6	
APPROPRIATION/BUI	OGET ACTIVITY	/ OT	HER PROCUR	EMENT, NAVY ·	- (BA-2)	P-1 ITEM NOM	IENCLATURE	•		-		
Communications 8	& Electronics	s Equipn	nent				Strat	tegic Platforr	n Support Ed	quipment/#26	67600	
Program Element for C			Other Related	Program Eleme	nts							
	Prior	ID									То	
	Years	Code	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY												
COST												
(In Millions)		Α		\$5.2	\$3.2	\$3.8	\$4.0	\$4.0	\$4.2	\$4.3		\$28.7
SPARES COST												
(In Millions)					<u> </u>		<u> </u>					\$0.0

PROGRAM DESCRIPTION/JUSTIFICATION:

Funding in this P-1 line provides Non-Propulsion Electronics equipment that will be installed aboard TRIDENT Class submarines as part of the Obsolete Equipment Replacement (OER) Program.

The OBSOLETE EQUIPMENT REPLACEMENT (OER) Program is the replacement of existing hardware/software that, though functional, has become operationally obsolete, is no longer in production or supportable with spare parts, has a high failure rate, or is no longer cost effective to maintain. OER hardware/software changes are expected to provide significant cost savings in reduced maintenance costs and use Commercial-Off-The-Shelf (COTS) technology where ever possible as long as all technical requirements are met.

This funding line provides funding to perform fully integrated system level testing and certification of changes to the TRIDENT Combat systems prior to installation of the changes on the ship. Integrated testing and certification provides assurance that when the changes are installed in the ship, the TRIDENT Combat system will operate as designed, allowing the ships to maintain their operational schedules and capabilities.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 54 PAGE NO. 1

UNCLASSIFIED

	WEAPONS SYSTEM P-5		ALYSIS			Weapon Sy	rstem							February 2	DATE: 2006
Other Pi	RIATION/BUDGET ACTIVITY rocurement, Navy					ID Code			URE/SUBHE					-	
BA-2: C	communications & Electronics Equ	uipment	1			Α	Strategic	Platform	Support E	quipment	/82P1				
			TOTAL COS	T IN THOUS	ANDS OF DO	OLLARS									
COST	ELEMENT OF COST	ID	Prior		FY 2004			FY 2005			FY 2006			FY 2007	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	N772														
P1221	Equipment OER	А							5,229			3,242			3,838
ים בספיי	2446, JUN 86]	P-1 SHOPP	INCLICT			5,229			3,242 CLASSIFICA	TIONI		3,83 CLASSIFICA

	WEAPONS SYSTE	EM COST	ANALYSIS	3			Weapon Sy	stem							DATE:		
												Febr	uary 2006				
	PRIATION/BUDGET ACTIVITY		ID Code	P-1 ITEM	NOMENCLA	ATURE/SUBF	IEAD										
	Procurement, Navy							Ctuata m	a Diatfau		Fa!	4/02D4					
BA-Z:	Communications & Electronics Equ	ipment					Α	Strategi	c Platfori	n Support	Equipm	ent/82P1					
COST	ELEMENT OF COST		FY 2008			FY 2009			FY 2010			FY 2011		То	Complete		Total
CODE		0	11120	T	0	111210	T	0	11.2.0	T. (-1.0)	0	Lucio	T	0	01	0	01
		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
	<u>N772</u>																
	18772																
P1221	Equipment OER			3,967			4,043			4,178			4,284				28,781
		1		3,967			4,043			4,178			4,284		0		28,781

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXP	IIBII (P-5A	,				Weapon System		A. DATE	E-10	000
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2: Communications & Electronic Equipment					_	 OMENCLATURE Platform Support Equipment solete Equipment Replacement			February 20	82P1
	CHANTER			DED 10011E	CONTRACT			DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
<u>FY 2005</u>	T								T	
Monitoring Workstation Technology Refresh	*	\$222.30	NAVSEA	N/A	WX	NSWC CD, Philadelphia	7/05	7/06	Yes	
6" Countermeasures	*	\$37.20	NAVSEA	N/A	WX	NUWC Newport, RI	9/05	7/06	Yes	
DEML & Ship Sets	*	\$194.80	NAVSEA	N/A	WX	SPAWAR Charleston, SC	7/05	7/06	Yes	
CSA MK2 MOD 0 6" EXCM Overtime Spt.	*	\$25.00	NAVSEA	N/A	WX	IMF Bangor, WA	6/05	7/05	Yes	
SSBN 737 ERP Fire Watch	*	\$475.00	NAVSEA	N/A	WX	IMF PAC Northwest	4/05	7/05	Yes	
CCS Rev. 7.1.1 Light Off and Subsystem Functional Test	*	\$24.30	NAVSEA	N/A	WX	NUWC Newport, RI	4/05	7/05	Yes	
Common Alarm Panel Changes for SSGN NPES 9.1G	*	\$108.00	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/05	7/06	Yes	
SCAP Software Modifications to Spt. SSGN NPES 9.1G	*	\$517.00	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/05	7/06	Yes	
Replace SC Station Obsolete Equip. Upgrade	*	\$263.00	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/05	7/05	Yes	
SSGN CCS Rev. 9.0G/9.1G ShipAlt Development	*	\$150.00	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/05	7/05	Yes	
CCS Rev. 7.1.1 IC/TACNAV	*	\$175.00	NAVSEA	N/A	WX	NSWC CD, Philadelphia	4/05	7/05	Yes	
CCS Rev. 7.1.1 DPS	*	\$12.00	NAVSEA	N/A	WX	NUWC Newport, RI	1/05	6/05	Yes	
Common Platform Engineering	*	\$757.70	NAVSEA	N/A	WX	NUWC Newport, RI	4/05	7/05	Yes	
SSGN DPS Rev. 9.0G	*	\$1,392.60	NAVSEA	N/A	wx	NUWC Newport, RI	4/05	7/05	Yes	
SSGN Modernization Rev. 9.0G	*	\$125.00	NAVSEA	N/A	wx	NUWC Newport, RI	1/05	6/06	Yes	
SSGN Modernization Rev. 9.1G	*	\$25.00	NAVSEA	N/A	wx	NUWC Newport, RI	1/05	6/06	Yes	
Delete MK6 Mod 5 DDRT, PMP, DDRT Selector	*	\$36.40	NAVSEA	N/A	wx	SPAWAR Charleston, SC	9/05	7/06	Yes	
CCS Revision Engineering-Cert/Test	*	\$266.70	NAVSEA	N/A N/A	wx wx	NUWC Newport, RI	2/06	7/06	Yes	
CCS Revision Engineering-Cert/Test CCS Rev. 6.4 (AN/BPS-15J) & CSA 6" CM	*		NAVSEA	N/A N/A	WX	TRF, Kings Bay	11/05	7/06	Yes	
	*	\$102.00								
AN/UNQ-9 Tactical Data Recorder TZ-901 (EMI Fix) SSGN 726 Rev. 9.0G Dual Power Supply (MCW H/W Kit)	*	\$115.00 \$205.00	NAVSEA NAVSEA	N/A N/A	WX CPFF	NSWC CD, Philadelphia Lockheed Martin, Eagan, MN	11/05 11/05	7/06 7/06	Yes Yes	
<u>FY 2006</u>			1							
DPS- Modifications in Support of 9.0G	*	\$549.00	NAVSEA	N/A	WX	NUWC Newport, RI	3/06	6/06	Yes	
Common Platform Engineering	*	\$421.00	NAVSEA	N/A	WX	NUWC Newport, RI	3/06	6/06	Yes	
SSGN 728 9.0G/9.1G HM&E Material	*	\$168.00	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/06	6/06	Yes	
SSGN 726 9.0G/9.1G HM&E Material	*	\$168.00	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/06	6/06	Yes	
SSGN 728 9.0G/9.1G Modernization	*	\$679.00	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/06	6/06	Yes	
SSGN 726 9.0G/9.1G Modernization	*	\$679.00	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/06	6/06	Yes	
SSBN 738 CCS Rev. 7.1.1 Modernization	1	\$237.30	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/06	6/06	Yes	
SSBN 736 CCS Rev. 7.1.1 Modernization	1	\$237.30	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	4/06	6/06	Yes	
SSBN 738 ERP Fire Watch (CM/7.1.1)	1	\$103.40	NAVSEA	N/A	WX	TRF, Kings Bay	4/06	6/06	Yes	
<u>FY 2007</u>			ļ			'				
CCS Revision Engineering Cert/Test	*	\$2,755.10	NAVSEA	N/A	WX	NUWC Newport, RI	1/07	6/08	Yes	
SSGN 727 Rev. 9.0G/9.1G Modernization	*	\$679.00	NAVSEA	N/A	WX	NUWC Newport, RI	1/07	6/08	Yes	
SSBN 739 CCS Rev. 7.1.1 HM&E Material	1	\$166.60	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	3/07	6/08	Yes	
SSBN 739 CCS Rev. 7.1.1 Modernization	1	\$237.30	NAVSEA	N/A	CPFF	EB Corp., Groton, Ct	3/07	6/08	Yes	

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

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^{*} A variety of hardware procured at different quantities.

UNCLASSIFIED

		В	UDGET ITEM JUSTIFICA	TION SHEE	Т			DATE:			
			P-40						FEBRU/	ARY 2006	
APPROPRIATION/BL	JDGET ACTIVIT	Υ				P-1 ITEM NOM	IENCLATURE				
OTHER PROCUR	REMENT, NA	/Y/BA-2	Communications and El	ectronic Equ	uipment	OTHER TRA	INING EQU	PMENT/ LI: 2	2762		
Program Element for	Code B Items:					Other Related I	Program Eleme	nts			
	Prior Years	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total
QUANTITY	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
COST (In Millions) SPARES COST	\$302.1		\$42.1	\$39.2	\$19.8	\$33.6	\$42.1	\$45.4	\$36.6		\$561.0
(In Millions)											\$0.0

The equipment procured under the Other Training Equipment line supports various types of Communication and Electronic training requirements: Procures sustaining and training equipment/systems, training aids and logistic support equipment to support Fleet training requirements.

(MB032) SUSTAINING TECHNICAL TRAINING EQUIPMENT

Funds procure Communication and Electronic Technical Training Equipment (TTE) identified by the Chief of Naval Education and Training (CNET) and the Surface Warfare Training Requirements Review (SWTRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair.

(MB040) BATTLE FORCE TACTICAL TRAINING (BFTT)

Funds will procure equipment/systems to support the Battle Force Tactical Training (BFTT) Program, which will provide the capability for coordinated shipboard combat system team and Battle Group/Battle Force (BG/BF) training in port. BFTT will provide realistic joint warfare training across the spectrum of armed conflict, realistic unit level team training in all warfare areas, a means to link ships together which are in different homeports for coordinated training, external stimulation of shipboard training systems and simulation of non-shipboard forces such as friendly, neutral, and enemy ships, aircraft and submarines. BFTT will use a distributed architecture in order to integrate existing on-board/embedded trainers, and will utilize Distributed Interactive Simulation (DIS) protocols to provide Battle Group/Force Commanders with the ability to conduct coordinated, realistic, high stress, interactive combat system training. The Total Ship Training System (TSTS) addition to the BFTT family of systems, connects combat system, navigation/ship control, engineering/propulsion, and damage control training, simultaneously exercising all primary elements of the crew in realistic combat-like conditions. TSTS is a capability added to BFTT. The training systems included under this capability include the following: Navigation Seamanship and Shiphandling Trainer (NSST), Engineering Operations and Casualty Control Trainer (EOCCT), Combat System Casualty Control Training and Management System (DCTMS), Training Management System (TMS), Naval Gunfire Support Trainer (NGST) (formerly NSFST), and the Augmented Reality Fire Fighting Trainer (ARFF).

P-1 SHOPPING LIST

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CLASSIFICATION:

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DD Form 2454, JUN 86

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION		FEBRUARY 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment	OTHER TRAINING EQUI	PMENT/ LI: 2762

In FY 05 the projected Baseline Procurement consists of one full BFTT system for (6) CG 47 Class, (1) LHD Class, and (1) LHA Class ship, (10) DCTMS, (2) NSSTs Shore Site, ILS/Spares, (10) Trainer Stimulator-Simulator-System (TSSS) units, and BFTT/COTS Obsolescence.

The FY 06 the projected Baseline Procurement consists of one full BFTT system for (1) CG 47 Class, (20) Trainer Stimulator-Simulator System (TSSS) units, (16) NSSTs, (19) DCTMS, ILS/Spares for TSTC, BFTT & TSSS, and BFTT/COTS Obsolescence.

The projected Baseline Procurement consists of one full BFTT system for (1) CG 47 Class, (16) NSSTs, (6) DCTMS, ILS/Spares for TSTC and BFTT, and BFTT/COTS Obsolescence.

(MB044) TRAINING SUPPORT EQUIPMENT/SUB

This line procures submarine Fleet and team trainers sustaining equipment and systems, which emulate ship characteristic/models, as approved by the CNO. Representative training systems include, but are not limited to: Acoustic Analysis Trainers (AAT moves to MB050 in FY06), the Virtual Environment Submarine (VESUB), Submarine Piloting and Navigation Trainers (SPAN), Reconfigurable SPAN, Navigation Databases, and PC-based Team Trainers which include the Mini-SPANs, Contact training in the Attack Centers. These systems are identified by the Submarine Learning Center (SLC) for training activities, which are approved by the CNO. Supports Fleet requested updates and technical refresh of all the systems and products listed above.

(MB050) SUBMARINE SONAR TRAINERS

The Sonar Employment Trainer (SET) provides acoustic operator employment Fleet and team training for submarine sonar systems. It uses entirely commercial components to contain contact and environment models, simulations of the sensors and signal processing, simulated operator consoles, and an instructional subsystem including an instructor's console. FY00 procured a SET system for the Naval Submarine School at Groton, CT. SET is used to train advanced operators in the Advanced Sonar Employment and Sonar Supervisor courses. The SET is periodically upgraded to support current software Advanced Processor Builds (APBs) and Technical Insertions (TIs). The SET is an essential component of an emerging shore based training that supports the projected technology in the Fleet systems that are designed to meet current and future threats: the Acoustics, Rapid Commercial-Off-The-Shelf (COTS) Insertion (A-RCI). The SET is based on the widely recognized and proven successful Interactive Multisensor Acoustic Trainer (IMAT) visualization and simulation technologies.

The SET is part of the solution to increasing operator competence and data recognition through employment training by its use of 3-D graphics, animation, audio, and scientific visualization methods to illustrate highly complex displays and concepts of oceanographic physics. The demands of curiculum and student throughput at the primary submarine training site at NAVSUBSCOL, Groton dictates the number and configuration of trainers provided.

The Acoustic Analysis Trainer (ATT) provides Sonar Technician operator shore-based training and exercise in target recognition and basic acoustic analysis utilizing a 12 student operator station implementation of the towed array portion of the BQQ-10 submarine sonar suite. Each operator is able to independently set up and exercise his display consoles and processors. The AAT is periodically upgraded to support current software Advanced Processor Builds (APBs) and Technical Insertions (TIs). There are (8) AATs located at shorebased submarine training facilities and one Engineering Production Model (EPM) AAT for a total of (9) systems.

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CLASSIFICATION:

UNCLASSIFIED

DD Form 2454. JUN 86

UNCLASSIFIED CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40 CONTINUATION APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment	OTHER TRAINING EQUIPMENT/ LI: 2762
OTHER PROCOREMENT, NAV 1/BA-2 Communications and Electronic Equipment	OTHER TRAINING EQUIPMENT/ LI. 2702
FY05: Procures technical insertion of hardware to accommodate the latest deployed version of the Combat S FY06: Provides software upgrades to the SET, hardware/software upgrades to AATs, and additional software FY07: Provides hardware and software upgrades to the SET, hardware/software upgrades to various AATs and software upgrades to	e upgrades to the AAT EPM.
(MB054) RADAR/ECS TRAINERS/EQUIPMENT This line procures electronics trainers for SSNs such as radar and exterior communictions (ECS).	
(MB056) SUBMARINE MULTI RECONFIGURABLE TRAINING SYSTEM (MRTS)/GENERAL SKILLS TRAIN This line procures MRTS, which includes Submarine Communications Support System (SCSS) trainers. It also	
P-1 SHOPPING LIST	CLASSIFICATION:

ITEM NO. 55 PAGE NO. 3 DD Form 2454, JUN 86

	WEAPONS SYSTEM COS	ST ANA	LYSIS			Weapon Sy	stem							DATE:	
	P-5													FEBRUARY	2006
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATU	i 38749						
	ocurement, Navy	4					Othor Tr	oinina Eas	uipment/ L	1.2762					
BA-2 C0	mmunications and Electronic Equipme	ent 	TOTAL COS	T INI THOLIS	SANDS OF DO		Other II	anning Eq	uipineni, L	1.2702					
			TOTAL COS	I IIV IIIOOS	ANDS OF DO	LLANG									
COST	ELEMENT OF COST	ID	Prior					FY 2005			FY 2006			FY 2007	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
													,		
	SURFACE WARFARE (N76)														
MB032	Surface Sustaining/TTE								59			72			41
MB040	Battle Force Tactical Training (BFTT)								34,252			34,560			13,404
	BFTT COTS Obsolescence								(2,316)			(3,315)			(1,788)
	Trainer Stimulator/Simulator System								(5,250)			(10,500)			(0)
	BFTT System/ Includes ILS & Spares								(18,651)			(2,520)			(939)
	Total Ship Training Capability (TSTC)								(8,035)			(18,225)			(10,677)
	SUBMARINE WARFARE														
MB044	Training Support Equipment / Sub								3,259			2,158			1,976
	Minor Training Support Equipment								(300)			(1,048)			(918)
	Nav Trainers Updates, Tech Ref								(0)			(1,110)			(1,058)
	VESUB								(0)			(0)			(0)
	SPAN						1	1,000	(1,000)			(0)			(0)
	IUSS Maintenance Trainer								(0)			(0)			(0)
	Acoustic Analysis Trainer (AAT)						1	1,959	(1,959)			(0)			(0)
MB050	Submarine Sonar Trainers								1,865			2,417			2,937
	SET								(1,865)			(164)			(1,602)
	AAT								(0)			(2,253)			(1,335)
MB054	Radar/ECS Training								66			0			0
MB056	MRTS/ Gen Skills Trng								2,643			0			0
MB058	AIR WARFARE Carrier Training Equipment														1,475
	1	1			D 1 SHODDIN				42,144			39,207			19,833

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CLASSIFICATION:

BUDGET PROCUREMEN	T HISTORY A	AND PLAN	NNING EXHIBIT (P-5	A)		Weapon System		A. DATE		
								FI	BRUARY 2	006
B. APPROPRIATION/BUDGET ACT Other Procurement, Nav					C. P-1 ITEM NON	IENCLATURE			Δ2	MB
BA-2 Communications a		: Fauipme	ent		Other Trai	ning Equipment/ LI	:2762		,	
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
FY 2005 MB040										
CG 47 CLASS P/I/T/T/D	6	2,265	NAVSEA 02	12/04	FFP	VARIOUS	02/05	05/05	YES	
LHA CLASS P/I/T/T/D	1	2,781	NAVSEA 02	12/04	FFP	VARIOUS	02/05	05/05	YES	
LHD 1 CLASS P/I/T/T/D	1	2,210	NAVSEA 02	12/04	FFP	VARIOUS	02/05	05/05	YES	
BFTT COTS Obsolescence	MULTIPLE	2,316	NSWC CRANE	10/04	WX	VARIOUS	10/04	05/05	YES	
ILS/SPARES	MULTIPLE	75	NSWC CRANE	10/04	WX	VARIOUS	10/04	02/05	YES	
STIM/SIM	10	525	NSWC CRANE	10/04	WX	VARIOUS	10/04	06/05	YES	
DCTMS	10	350	NSWC Panama City	12/04	CPFF	Thomas Associates, Stevensville, MD	5/05	4/06	YES	
NSST Shore Site V2 P/I/T/T	4	788	NAVSEA 02	12/04	CPFF	Kongsberg, Mystic, CT	9/05	6/06	YES	
NSST Bridge Wing Simulator	1	1,378	NAVSEA 02	12/04	CPFF	Kongsberg, Mystic, CT	9/05	6/06	YES	
MB044										
TSE	MULTIPLE	300	NAVAIR, Orlando	N/A	WX	NAVAIR, Orlando	VARIOUS	VARIOUS	YES	
SPAN ATT HW/SW Upgrade	1	1,000 1,959	NAVAIR, Orlando NSWC/CD	N/A N/A	WX WX	NAVAIR, Orlando NSWC/CD	02/05 02/05	04/06 06/06	YES YES	
MB050										
SET HW/SW Upgrade	MULTIPLE	1,865	NSWC/CD	N/A	WX	NSWC/CD	11/04	02/05	YES	
MB056										
MRTS	2	721	NAVAIR, Orlando	N/A	WX	NAVAIR, Orlando	02/05	11/05	YES	
SEA 08 ECRs	1	1,201	NAVSEA	07/03	SS/CPF	GD/EB, Groton	12/04	05/05	YES	

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

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UNCLASSIFIED

BUDGET PROCUREMEN	T HISTORY A	AND PLAN	INING EXHIBIT (P-5	A)		Weapon System		A. DATE		
								FE	BRUARY 2	006
B. APPROPRIATION/BUDGET ACT Other Procurement, Navy					C. P-1 ITEM NON	MENCLATURE			A2	MB
BA-2 Communications a	nd Electronic	: Equipme	ent		Other Trai	ning Equipment/ LI	:2762			
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2006 MB040										
CG 47 CLASS P/I/T/T/D	1	2,230	NSWC CRANE	12/04	WX	VARIOUS	12/05	05/06	YES	
BFTT COTS Obsolescence	MULTIPLE	3,315	NSWC CRANE	10/04	WX	VARIOUS	12/05	05/06	YES	
NSST V1 P/I/T/T	16	450	NAVSEA 02	10/04	CPFF	Kongsberg, Mystic, CT	7/06	4/07	YES	
DCTMS	19	546	NSWC Panama City	12/04	CPFF	Thomas Associates, Stevensville, MD	2/06	4/07	YES	
ILS/SPARES	MULTIPLE	941	NSWC CRANE	10/05	WX	VARIOUS	10/05	02/06	YES	
STIM/SIM	20	525	NSWC CRANE	10/05	WX	VARIOUS	10/05	05/06	YES	
MB044										
TSE	MULTIPLE	1,109	NAVAIR, Orlando	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	YES	
Nav Trnrs Updates	MULTIPLE	1,110	NAVAIR, Orlando	N/A	WX	NAVAIR, Orlando	VARIOUS	VARIOUS	YES	
MB050										
SET SW Upgrade	MULTIPLE	164	NSWC/CD	N/A	WX	NSWC/CD	11/05	06/06	YES	09/05
ATT HW/SW Upgrade	MULTIPLE	2,253	NSWC/CD	N/A	WX	NSWC/CD	11/05	02/06	YES	09/05
D DEMARKS										

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 55 PAGE NO. 6 UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HIS	TORY AND PL	ANNING	EXHIBIT (P-5A)			Weapon System		A. DATE		
					1			FI	EBRUARY 2	006
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOM	IENCLATURE				NAD.
Other Procurement, Navy					Other Tue!		-0700		A2	MB
BA-2 Communications and El	ectronic Equip	oment	,			ning Equipment/ LI	:2762	L B. TE OF	00500	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2007 MB040										
CG 47 CLASS P/I/T/T/D	1	939	NSWC CRANE	10/06	WX	VARIOUS	12/06	05/07	YES	
BFTT COTS Obsolescence	MULTIPLE	1,788	NSWC CRANE	10/06	WX	VARIOUS	12/06	05/07	YES	
NSST V1 P/I/T/T	16	434	NAVSEA 02	10/04	CPFF	Kongsberg, Mystic, CT	7/07	4/08	YES	
DCTMS	6	557	NSWC Panama City	12/04	CPFF	Thomas Associates, Stevensville, MD	2/07	4/08	YES	
ILS/SPARES	MULTIPLE	432	NSWC CRANE	10/06	WX	VARIOUS	10/06	02/07	YES	
MB044 TSE	MULTIPLE	902	NAVAIR, Orlando	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	YES	
Nav Trnrs Updates	MULTIPLE	1,058	NAVAIR, Orlando	N/A	WX	NAVAIR, Orlando	VARIOUS	VARIOUS	YES	
MB050 SET HW/SW Upgrade ATT HW/SW Upgrade	MULTIPLE MULTIPLE	1,602 1,335	NSWC/CD NSWC/CD	N/A N/A	wx wx	NSWC/CD NSWC/CD	11/06 11/06	09/07 02/07	NO NO	09/06 09/06
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 55 PAGE NO. 7 UNCLASSIFIED

UNCLASSIFIED

TIME PHASED REQUIREMENT S P-23	SCHEDULE				/BUDGE			•					CLATUF		men	t/ LI:	2762	,			C. DA	TE				
. 20		BA-		-		, .	,						JSQ-					-				FEB	BRU/	ARY	2006	;
			FY 200)5			FY 200				FY 200				FY 200				FY 200				FY 20			LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P) (P)	0	4	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCHOOLS/OTHER TRAINING	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER	(P)																									
TOTAL PHASED REQ	(C)	97	101	105	105	105	105	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
ASSETS ON HAND	(BP)																									
DELIVERY FY 03 & PRIOR	(P)																									
FY 05	(P)	0	4	4	0																					
FY 06	(P)					0	0	1	0																	
FY 07	(P)									0	0	0	0													
FY 08	(P)													0	0	0	0									
FY 09	(P)																	0	0	0	0					
To Complete	(P)																					0	0	0	0	0
TOTAL ASSETS	(C)	97	101	105	105	105	105	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS	EMARKS							(QTY)	<u> </u>	<u> </u>	<u> </u>	TOTAL	RQMT		INSTAL	LED		HAND			99 & PR		<u> </u>	UNFU	INDED	<u> </u>
					1.	APPN	l -	OPN			106		106			105		1/1/06	0	UNE	DELIVER	RED 0			0	
	2.	APPN	l -																							
										:			ADMIN			INITIA	L ORDE	=P			_	REORI	DER			
3. PROCUREMENT LEA N/A									אוווו טר			6 Mont		1		INITIA	L ONDE	-11	6 Mont	hs	6 Mont		DLIN			

DD for 2447, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

> ITEM NO 55 PAGE NO 8

UNCLASSIFIED

				EMENTS SCH NSTALLATIO			Other	EM NOMENCLATUI Training Equip EQ-T46 BFTT					DATE	FEBRUAR'	Y 2006
Other Prod	curemen		ectronic	: Equipment				Installing Ager	nt						
1ST QTI	₹	2ND QTF	₹	3RD QTR	1	4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			•								FY 2	2005			
											4		4		
			F	Y 2006							FY 2	2007			
					1										
								ACCOUNC LIST				CI ASSISION			

P-1 SHOPPING LIST

ITEM NO. 55 PAGE NO. 9

CLASSIFICATION:

		BUDGE	T ITEM JU	STIFICATION	ON SHEET	•					DATE:	
		P-40									February 20	006
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM	NOMENCL	ATURE			
Other Procurement, Navy	BA 2 - Co	ent	281500, M SYSTEMS		RTRAFFIC	CONTROL	. & LANDING	G				
Program Element for Code B Items: NOT APPLICABLE			Other Rela	ated Progra	m Element	ts						
NOT ALL LIGABLE	Prior Years	ID Code	FY 2005	FY 2006	FY 2007			FY 2010	FY 2011	To Complete	Total Program	
Quantity												
Cost (\$M)	\$65.8	Α	\$15.9	\$19.3	\$20.3	\$20.0	\$17.5	\$17.9	\$18.3	Cont	Cont	

DESCRIPTION:

Marine Air Traffic Control and Landing Systems (MATCALS) is a fully automated all-weather expeditionary terminal Air Traffic Control (ATC) System that provides arrival/departure and enroute surveillance control, automated precision approach and landing control or Ground Controlled Approach (GCA), Tactical Air Navigation (TACAN), and other ATC services. MATCALS satisfies the operational requirements set forth by Specific Operational Requirements (SOR) 34-22 of 12 July 1973; Marine Remote Area Approach and Landing System SOR 34-26 of 30 Apr 1975; and Remote Landing Site Tower (RLST) Operational Requirements Document (ORD) 341-88-93 of 25 Jul 1997.

MATCALS, with other Marine Air Command and Control Systems and federal agencies, provides the ability to project air combat power in the Amphibious Operations Area (AOA) without regard to weather. Air traffic control and landing automation reduces air traffic controllers' traffic handling and management time, allowing more time for mission response and task accomplishment. It supports a required increase in aircraft sortie rates and contributes to extended time on target. The system provides for integration of Air Traffic Control (ATC) into the total Marine Air Command and Control System (MACCS).

MATCALS has three primary subsystems: (1) Air Traffic Control Subsystem (ATCS) consisting of an AN/TPS-73 Airport Surveillance Radar and various peripheral equipment; (2) All-Weather Landing Subsystem (ALS) consisting of an AN/TPN-22 Precision Approach Landing Radar, AN/UYK-44 computer and peripheral equipment; and (3) the Control and Communications Subsystem (CCS) (AN/TSQ-131(V)) with a Communications Control Group (CCG), radios, computer software, multi mode displays and peripherals. Other Fleet Marine Force ATC equipment supported by the funding line MATCALS are the AN/TSQ-120 Tower, AN/TRN-44 TACAN, AN/TPN-30 Marine Remote Area Approach & Landing Set (MRAALS), the AN/TSQ-216 Remote Landing Site Tower (RLST), the AN/TSM-170 Maintenance Shelters, AN/TRN-46 DAME, and various support items.

A portion of the current MATCALS equipment is being transitioned to the Air Surveillance and Precision Approach Radar Control System (ASPARCS) (MROC decision memorandum 11-2005 dated 8 December 2004). ASPARCS consists of an Air Surveillance Radar, which will replace the AN/TPS-73; a Precision Approach Radar, which will replace the AN/TPN-22; and a Command and Control (C2) Node, which will replace the AN/TSQ-131. ASPARCS will provide greater mobility, transportability, reliability, maintainability, and interoperability with Marine Corps/Naw Command and Control Systems than the current MATCALS.

FY07 funding procures various Maintainability Improvements and related support and installation costs, 2 ASPARCS Systems (MJ434), 4 Logistics Support Systems (MJ441).

INSTALLATION AGENT: SPAWARSYSCEN, SD; Facilities that are to receive the equipment: Marine Corps Air Traffic Control Detachments and support and field activities.

CLASSIFICATION:

UNCLASSIFIED (Exhibit P-40, page 1 of 6)

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS DATE: February 2006 P-40a APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE OTHER PROCUREMENT, NAVY/ BA 2 -**Communications and Electronic Equipment** 281500, MATCALS ID Prior То Total FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Procurement Items Code Years Complete Program MJ427 MAINT / RELIABILITY IMPROVEMENT VAR VAR VAR Quantity VAR Funding 9,959 3,828 2,143 2,962 MJ432 MANPACK RADIOS Quantity 27 24 792 720 2,216 Funding MJ433 MATCALS RADIO ASPARCS - PRC-117F Quantity 12 350 Funding 175 MJ434 ASPARCS Quantity 9,029 11,818 13,285 Funding MJ440 DAME Quantity 1,359 800 Funding MJ441 LOGISTICS SUPPORT VEHICLE Funding 450 1,160 1,200 1,240 Other Costs 51,796 944 2,295 2,774 Total P-1 Funding 65,780 15,928 19,326 20,261

CLASSIFICATION:

	WEAPONS SYSTEM COST ANALYSIS	Weapon S	System									DATE:		
	P5											Februa	ry 2006	
APPROP	PRIATION/BUDGET ACTIVITY	-							ID Code	P-1 ITEM NON	MENCLATURE			
OTHER F	PROCUREMENT, NAVY\ BA 2 - Communications and	l Electronic	Equipment							281500, MATO	CALS			
			Dollars in Thousa	ands										
			Prior Years		FY 2005			FY 2006			FY 2007			
Cost Code	Element of Cost	ID Code						Unit Cost	Total Cost	QTY	Unit Cost	Total Cost		
MJ427	MAINT / RELIABILITY IMPROVEMENT	Α	9,959	VAR		3,828	VAR		2,143	VAR		2,962		
MJ432	MANPACK RADIOS	Α	2,216	27	29.	792	24	30.	720					
MJ433	MATCALS RADIO ASPARCS - PRC-117F	В		6	29.	175	12	29.	350					
MJ434	ASPARCS	В		2	4,515.	9,029	2	5,909.	11,818	2	6,643.	13,285		
MJ440	DAME	Α	1,359				8	100.	800					
MJ441	LOGISTICS SUPPORT VEHICLE	Α	450	4	290.	1,160	4	300.	1,200	4	310.	1,240		
MJ800	ILS	N/A	1,571			375			938			984		
MJ830	PRODUCTION ENGINEERING	N/A	3,440			410			845			1,296		
MJ831	PROUCTION SUPPORT	N/A	651			159			281			290		
MJ860	ACCEPTANCE TESTING	N/A	794						29					
MJ900	NON-FMP INSTALLATION	N/A	2,560						143			189		
MJ990	INITIAL TRAINING	N/A	317						59			15		
	VARIOUS**		42,463											
			65,780		15,928		19,326			20,261				

^{*}FY05 \$2,830K TITLE IX SUPPLEMENTAL FUNDING RECEIVED FUNDED MRIs (MJ427) AND 27 MANPACK RADIOS (MJ432).

^{**}THE AMOUNT IDENTIFIED AGAINST THIS COST ELEMENT REFLECTS TOTAL PRIOR YEAR FUNDING ASSOCIATED WITH COST ELEMENTS NO LONGER FINANCED IN FY05 AND BEYOND.

BUDGET PROCUREMENT HISTORY AND	PLANNI	NG EXHIBIT	(P-5A)			Weapon System		A. DAT	_	
B. APPROPRIATION/BUDGET ACTIVITY	/				C. P-1 ITEM NO	L MENCLATURE		rebluary	SUBHEAL)
OTHER PROCUREMENT, NAVY /	BA 2 - C	ommunicatio	ns and Electronic Equipment			281500, MATCALS			42	MJ
·		Hait Oaat		RFP	Control of Models and		A	Date of	Specs	Date
Cost Element/FiscalYear	Qty	Unit Cost (000)	Location of PCO	Issue Date	Contract Method & Type	Contractor and Location	Award Date	First Delivery	Now	Revisions Available
MJ432 MANPACK RADIOS										
FY05	27	29	SSC SD	Sep-05	FFP/OPTION	Harris Corporation, Rochester, NY	Sep-05	Feb-06	YES	
FY06	24	30	SSC SD		FFP/OPTION	Harris Corporation, Rochester, NY	Nov-05	May-06	YES	
MJ433 MATCALS RADIO ASPARCS - PRC-117F										
FY05	6	29	NCCOSC	Nov-04	SS/OPTION	Harris Corporation, Rochester, NY	Jun-05	Dec-05	YES	
FY06	12	29	SSC SD		SS/OPTION	Harris Corporation, Rochester, NY	Dec-05	Jun-06	YES	
MJ434 ASPARCS SYSTEMS*										
FY05	2	4,515	U.S. ARMY PMATC, Redstone Arsenal AL	Dec-99	SS/OPTION	Raytheon Corporation, Marlboro, MA	Apr-05	Jul-06	YES	
FY06	2	5,909	U.S. ARMY PMATC, Redstone Arsenal AL	Jul-05	SS/FFP	Raytheon Corporation, Marlboro, MA	Jan-06	Apr-07	YES	
FY07	2	6,643	U.S. ARMY PMATC, Redstone Arsenal AL		SS/OPTION	Raytheon Corporation, Marlboro, MA	Jan-07	Apr-08	YES	
MJ440 DAME										
FY06	8	100	NAVAIR	N/A	WX	SSC SD, San Diego CA	Dec-05	Dec-06		
MJ441 LOGISTICS SUPPORT SYSTEM									YES	
FY05	4	290	NAVAIR	N/A	WX	NAVFAC MIDLANT, Norfolk VA	Jan-05	Jan-06	YES	
FY06	4	300	NAVAIR	N/A	WX	NAVFAC MIDLANT, Norfolk VA	Nov-05	Nov-06	YES	
FY07	4	310	NAVAIR	N/A	WX	NAVFAC MIDLANT, Norfolk VA	Nov-06	Nov-07	YES	

REMARKS:

^{*} US Army contract vehicle.

FY 06 PRES BUDGET PRODUC		SCHE	DULE	<u>:,</u> P-21	1													DATE						2006						
APPROPRIATION/BUDGET ACT OTHER PROCUREMENT, N		/ BA	-2										Wea	ipon	Sys	stem		281	500,	, MA	_	IE AI	IR T	TURE RAF		COI	NTR	OL	<u> </u>	
<u> </u>	47					Т	Pro	duct	ion I	Rate	\neg	 			Pro	cure														
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ASPARCS			heon (ooro, N			4		4		14					3			15						18				NON	NE	
											F	ISCAL	L YEA	R 200)4							FIS(CAL Y	EAR 2	2005				_ _	
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MJ434 ASPARCS SYSTEMS	05	N	2	0																			Α						2	
	05 N 2 0 2																													
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ITEM / MANUFACTURER	F	s	Q	D	В		2005				7.2			NDAR	YEAF	R 2006	;							LEND		AR 2	:007			
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
MJ434 ASPARCS SYSTEMS	05 06 07		2 2 2	0 0 0	2 2 2				A						2						A			2						0 0 2
Remarks: MSR is 4; MATCALS qu	uantitie	s com	ıbine ı	with Ar	MSF	₹.																								

311 / 244 ITEM NO. 56 PAGE NO. 5 Exhibit P-21 Production Schedule

FY 06 PRES BUDGET PRODUCT		SCHE	DUL	Ξ, P-2′	1													DATE						2000						
APPROPRIATION/BUDGET ACTI	VITY											/	Wea	pon	Syst	tem		P-1	ITE	M N	OME	ENC	LAT	URE	Ξ					
																							RΤ	RAF	FIC	100	NTR	OL 8	š	
OTHER PROCUREMENT, N	AVY	<u>/ BA</u>	-2																		YST	ЕМ								
							Prod	ducti	on F	≀ate					Proc			t Le	adtir	nes										
			ufactu										T Pri		ALT				nitia			eord					l	Uni	t of	
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ITEM / MANUFACTURER		F S Q D B 2007 Y V T E A O N D J F C Y L L C O F A F											ALEN	DAR	YEAR	2008					ı				AR YE	.AR 20	009			В
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1J434 ASPARCS SYSTEMS	07	N	2	0	2							2																		0
																									 					
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Remarks:																														_

DD Form 2445, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST

ITEM NO. 56 PAGE NO. 6

UNCLASSIFIED

	BUDG	ET ITEN	I JUSTIFIC	CATION SH	HEET		DATE:				
			P-40						Februar	y 2006	
APPROPRIATION	/BUDGET A	CTIVITY			P-1 ITEM NO	MENCLATURE					
Other Procure	ment, Nav	y		BA/2	283100, Sh	ipboard Air	Traffic Con	trol			
Program Element t	for Code B It	ems:			Other Related	Program Elem	nents				
0604504N											
	Prior	ID								То	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY											
COST											
(In Millions)	\$122.0	A/B	\$7.1	\$7.2	\$7.5	\$7.7	\$7.9	\$8.0	\$9.3	CONT	CONT

DESCRIPTION: Shipboard Air Traffic Control (SATC) systems are responsible for safe and expeditious control of air traffic within 50 Nautical Miles of a ship. SATC systems include the air traffic surveillance radar, AN/SPN-43, and the air traffic central tracking and control system, AN/TPX-42, which has two major configurations: Carrier Air Traffic Control Center-Direct Altitude and Identity Readout (CATCC-DAIR) and Amphibious Air Traffic Control-Direct Altitude and Identity Readout (AATC-DAIR). Both DAIR systems use AN/SPN-43 and Identification Friend or Foe (IFF) inputs to track and control aircraft. Obsolescence problems are being addressed through various upgrades in a phased approach. The major upgrades include CATCC-to-AATC field change and a series of AN/TPX-42 modification kits requiring various combinations of AN/UYK-44 processor rehost, track processor upgrade, AN/UYQ-70 console, Air Traffic Control Common Console, flat panel display, and other components to bring the predecessor system to AN/TPX-42A(V)14 with field changes 1 and 2 configuration.

FY 2007 funds the procurement of one AN/TPX-42A(V)14 Upgrade F kit, one AN/TPX-42A(V)14 Upgrade G kits, and various AN/SPN-43 modification kits. It also funds the installation of two AN/TPX-42A(V)14 Upgrade A kit, two AN/TPX-42A(V)14 Upgrade C kits, and various AN/SPN-43 modification kits.

Installing Agent: Shipyards and Alteration Installation Teams

When installation to be made: Refueling Overhaul (ROH) / Selected Restricted Availability (SRA) / Restricted Availability (RAV)

Ships or facilities to receive the equipment: CV/CVNs, LHD/LHAs, Software Support Activity (NAWCAD, St Inigoes), Integrated Combat System Test Facility (San Diego), Landing Systems Test Facility (NAWCAD, Patuxent River), and training sites.

P-1 SHOPPING LIST

CLASSIFICATION:

DC Code P-1 TEM NOMENCLATURE/SUBHEAD	uary 2006	DATE:									rstem	Weapon Sy		WEAPONS SYSTEM COST ANALYSIS P-5 OPRIATION/BUDGET ACTIVITY											
COST COST	uai y 2000	i ebiuai						ΔD	RE/SUBHE <i>A</i>	MENCLATU	P-1 ITEM NO	ID Code			PRIATION/BUDGET ACTIVITY										
COST CODE ELEMENT OF COST ID Code Prior FY 2005 FY 2006 FY 2007			MP	42				Control	Air Traffic	nipboard A	283100, SI	A/B			,,,,,,,, .										
CODE CODE										_ARS	NDS OF DOL	IN THOUSA	TOTAL COST												
MP023					FY 2007			FY 2006			FY 2005														
MP044	st Total Co	Unit Cost	Quantity	Total Cost	Unit Cost	Quantity	Total Cost	Unit Cost	Quantity	Total Cost	Unit Cost	Quantity													
MP046 AN/TPX-42A(V)14 UPG A KIT 1				208		Var.	80		Var.	75		Var.	2,573	А	AN/SPN-43 MOD KITS	ЛР023									
							4 575	4575		4 227	4007		,												
IPO49									2	,		2	,		` '										
NFOSO AN/TPX-42A(V)14 with field changes 1 and 2 2 2 2 2 2 2 2 2 2															` '										
SEABASED_JPALS B INTEGRATED LOGISTICS SUPPORT N/A 1,624 176 326 389 189 520 324 189 520 180						1																			
PRODUCTION ENGINEERING SPT				.,												1P051									
IP840 QUALITY ASSURANCE N/A 567 IP860 ACCEPTANCE TEST & EVALUATION N/A 654 IP900 FMP INSTALLATION N/A 33,836 IP910 FMP INSTALLATION N/A 33,836 VARIOUS 2/ VARIOUS 2/ VARIOUS 1/2 As design for the AN/TPX-42A(V)14 with field changes 1 and 2 exached completion, it was found that more functionality could be transferred into the upgraded digital and signal processors. He originally conceived product line of A, B, C, and D kits were leant to convert various configurations of AN/TPX-42A(V)16 with field change 1 and 2 configuration.														PRODUCTION ENGINEERING SPT N/A											
P860 ACCEPTANCE TEST & EVALUATION N/A 654 P900 NON-FMP INSTALLATION N/A 5,213 P910 FMP INSTALLATION N/A 33,836 VARIOUS 2/ 40,545 As design for the AN/TPX-42A(V)14 with field changes 1 and 2 ached completion, it was found that more functionality could be transferred into the upgraded digital and signal processors. He earl to convert various configurations of AN/TPX-42A(V) to e AN/TPX-42A(V)14 with field change 1 and 2 configuration.																									
IP900 NON-FMP INSTALLATION N/A 5,213 N/A 33,836 290 3,405 VARIOUS 2/ 40,545 / As design for the AN/TPX-42A(V)14 with field changes 1 and 2 eached completion, it was found that more functionality could be transferred into the upgraded digital and signal processors. The originally conceived product line of A, B, C, and D kits were leant to convert various configurations of AN/TPX-42A(V) to the AN/TPX-42A(V)14 with field change 1 and 2 configuration.				00			100			33															
VARIOUS 2/ / As design for the AN/TPX-42A(V)14 with field changes 1 and 2 eached completion, it was found that more functionality could et ransferred into the upgraded digital and signal processors. The originally conceived product line of A, B, C, and D kits were neant to convert various configurations of AN/TPX-42A(V) to the AN/TPX-42A(V)14 with field change 1 and 2 configuration.				290			254			229															
/ As design for the AN/TPX-42A(V)14 with field changes 1 and 2 eached completion, it was found that more functionality could e transferred into the upgraded digital and signal processors. The originally conceived product line of A, B, C, and D kits were neant to convert various configurations of AN/TPX-42A(V) to the AN/TPX-42A(V)14 with field change 1 and 2 configuration.				3,405			2,047			3,095			33,836	N/A	FMP INSTALLATION	/IP910									
eached completion, it was found that more functionality could be transferred into the upgraded digital and signal processors. The originally conceived product line of A, B, C, and D kits were the eart to convert various configurations of AN/TPX-42A(V) to the AN/TPX-42A(V)14 with field change 1 and 2 configuration.													40,545		VARIOUS 2/										
On product lines into two product lines (A and C), which adequately convert all existing configurations. If The amount identified against this cost element reflects total prior year funding associated with cost elements no longer nanced in FY 2004 and beyond.														/ As design for the AN/TPX-42A(V)14 with field changes 1 and 2 eached completion, it was found that more functionality could be transferred into the upgraded digital and signal processors. The originally conceived product line of A, B, C, and D kits were deant to convert various configurations of AN/TPX-42A(V) to the AN/TPX-42A(V)14 with field change 1 and 2 configuration. The current submission reflects consolidation of the A, B, C and product lines into two product lines (A and C), which adequately convert all existing configurations. / The amount identified against this cost element reflects total rior year funding associated with cost elements no longer manced in FY 2004 and beyond.											
121,943 7,119 7,210 7,476				7,476			7,210			7,119			121,943	1											

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:
ITEM NO. 57 PAGE NO. 2

board Air Traffic Cont ONTRACTOR AWARE DO LOCATION DATE	DATE OF FIRST	SPECS AVAILABLE NOW	MP DATE REVISIONS AVAILABLE
board Air Traffic Cont	DATE OF FIRST	42 SPECS AVAILABLE	DATE REVISIONS
ONTRACTOR AWARE	DATE OF FIRST	SPECS AVAILABLE	DATE REVISIONS
ONTRACTOR AWARE	DATE OF FIRST	SPECS AVAILABLE	DATE REVISIONS
	FIRST	AVAILABLE	REVISIONS
			
CAD St. Inigoes 12/04	10/05	YES	ĺ
CAD St. Inigoes 12/05	10/06	YES	
CAD St. Inigoes 12/04	10/05	YES	l
CAD St. Inigoes 12/05	10/06	YES	
CAD St. Inigoes 12/06	10/07	NO	
CAD St. Inigoes 12/06	10/07	NO	
C	AD St. Inigoes 12/04 12/05 AD St. Inigoes 12/06	AD St. Inigoes 12/04 10/05 12/05 10/06 12/05 10/06 12/05 10/07	AD St. Inigoes 12/04 10/05 YES 2AD St. Inigoes 12/05 10/06 YES 2AD St. Inigoes 12/06 10/07 NO

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 57 CLASSIFICATION:

PAGE NO. 3

^{1.} System integration and assembly will be accomplished by the field activity, NAWCAD, after procuring individual components through existing contractual vehicles.

^{2.} Due to maturing design of the AN/TPX-42A(V)14 with Field Changes 1 and 2, the B Kit and D Kit have become identical with the C Kit, with all three requirements merged under the C Kit's Cost Code. The insertion of the Air Traffic Control (ATC) Common Console, starting in FY 2007, into A Kit and C Kit production has necessitated new product lines: F Kit and G Kit, respectively.

	BUDGE	T ITEM	JUSTIFICA P-40	TION SHEE	T		DATE:	Cobrus	m, 2006		
A DDD O DD I A TION I/D	LIBOET AOTIV	T) (P-40		In 4 ITEMANO	MENOLATUR		reprua	ry 2006		
APPROPRIATION/B	UDGET ACTIVI	IY			P-1 ITEM NO	MENCLATUR	E				
OTHER PROCU	REMENT, NA	VY BA-	-2			283200	, AUTOMAT	IC CARRIEF	R LANDING	SYSTEM	
Program Element for	Code B Items:				Other Related	l Program Eler	nents				
	02041121	V				0604504N					
	Prior	ID								То	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY											
COST											
(In Millions)	\$258.1	Α	11.3	17.2	18.0	18.6	19.1	19.5	19.9	CONT	CONT

The Automatic Carrier Landing System (ACLS) provides the primary precision electronic guidance for landing aircraft under all weather conditions on CVs, CVNs, LHAs, LHDs and at selected Naval Air Stations. Many of the components in the system have been in service for more than twenty years. This program funds maintainability, reliability and supportability improvements to existing equipment components that can no longer be maintained and supported, as well as items providing upgraded operational capability. A major effort involves a group of technology-refresh upgrades to extend the AN/SPN-46(V) service life until 2020. In addition to Radar Control Group (Unit 19), modification kits will be acquired for an Enhanced GPS/Inertial unit to replace an older Inertial Navigation System unit, for modification of Radar Set Groups (Units 24 and 25), for replacement of the AN/AYK-14 with a state-of-the-art processor group, and replacement of operator and maintenance consoles and peripheral displays.

FY 2007 - Procures four AN/SPN-46 Unit 19 Upgrades, various miscellaneous ACLS Modification Kits, and associated installation efforts.

Installing Agent: Shipyards and Alteration Installation Teams (AITs).

Ships or facilities to receive equipment: CV/CVNs, LHAs, LHDs, selected LPHs, the In-Service Engineering Agent (ISEA-NAWCAD, St. Inigoes), selected shore sites and the training site.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 58

PAGE NO. 1

UNCLASSIFIED

DD Form 2454, JUN 86

UNCLASSIFIED CLASSIFICATION:

	WEAPONS SYSTEM COST ANAL	YSIS		Weapon System	m									DATE:	
	P-5													Februa	ry 2006
	PRIATION/BUDGET ACTIVITY			ID Code	P-1 ITEM NON	IENCLATURE	SUBHEAD								
Otner F	Procurement, Navy/BA-2														
			TOTAL 000T	IN THOUSAND:	0.05.001140		UTOMATIC	CARRIER	LANDING	SYSTEM		(ACLS)			
			TOTAL COST	IN THOUSAND	S OF DOLLAR	5									
COST	ELEMENT OF COST	ID	Prior		FY 2005			FY 2006			FY 2007				
CODE		Code	Years												
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
PN404	AN/SPN-41 Ind. Landing Monitor (ILM) 1/	A	35,509	,											
PN408	ACLS Mod Kits 1/	N/A	5,406			141	VAR		4,135	VAR		25			
PN409	AN/SPN-35C Modification 2/	Α	13,330	4	1,894	7,576	1	2,748	2,748						
PN410 PN411	AN/SPN-46(V) Unit 19 Mod Kits (LCE) AN/SPN-46(V) EGI Mod Kits (LCE)	B N/A					4	1,046	4,186	4	1,452	5,808			
PN411	AN/SPN-46(V) Computer Group Mod Kits (LCE)	В													
PN413	AN/SPN-46(V) Radar Set Group Mod Kits (LCE)	N/A													
PN414	AN/SPN-46(V) Peripheral Display Mod Kits (LCE)	N/A													
PN415	AN/SPN-46(V) Common Console Mod Kits (LCE)	B	4 474			404			070			000			
PN800 PN830	Integrated Logistics Support Production Engineering Support	N/A N/A	4,471 9,594			461 765			672 1,276			606 1,206			
PN840	Quality Assurance	N/A	1,646			99			205			234			
PN860	Acceptance Test and Evaluation	N/A	5,210						24						
PN900	Non-FMP Installation	N/A	2,635			323 1,915			408 3,453			202			
PN910 PN990	FMP Installation Initial Training	N/A N/A	71,923 32			1,915			3,453 52			9,892 32			
111000	Various 3/	14//	108,297						02			02			
	Mod Kits include kits for the following equipment: AN/S	SPN-35, AN/	SPN-41, AN-S	PN-42, AN-SPN-	-46, and AN/TR	N-28									
	icing reflects EOQ pricing for major subassemblies.]	 			 	00E and have								
3/ The ar	nount identified in this line reflects total prior year fundi	ng associate	eu with cost élé	errients or mod ki	its no longer fin		oos and beyond	ı.						+	
			258,053			11,280			17,159			18,005			
DD FORM	1 2446, JUN 86	P-1 SH	OPPING LI	ST									CLASSIFIC	CATION:	

P-1 SHOPPING LIST DD FORM 2446, JUN 86 ITEM NO. 58 PAGE NO. 2

UNCLASSIFIED

BUDGET PROCURE	MENT HISTO	RY AND PL	ANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
								F	ebruary 20	006
B. APPROPRIATION/BUDG	ET ACTIVITY				C. P-1 ITEM NOW	IENCLATURE			SUBHEAD	
Other Procurement,	Navy/BA-2									
						, Automatic Carrier Lan	ding Sys	tem		PN
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
PN409 AN/SPN-35C										
FY05	4	\$1,894	NAVAIR	11/04	PO	NAWCAD St.Inigoes, MD	1/05	12/06	YES	
FY06	1	\$2,748	NAVAIR	N/A	PO	NAWCAD St.Inigoes,MD	12/05	10/07	YES	
PN410 AN/SPN-46										
Unit 19										
FY06 1/	4	\$1,046	NAVAIR	TBD	C/FFP	TBD	4/06	3/07	YES	
FY07	4	\$1,452	NAVAIR	TBD	C/FFP	TBD	4/07	3/08	YES	

D. REMARKS

For the AN/SPN-35C modification kit, system integration and assembly will be accomplished by the field activity, NAWCAD, after procuring individual components through various contractual vehicles.

1/ FY06 quantity includes upgrade of 2 EDM's, skewing the average unit cost.

P-1 SHOPPING LIST

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CLASSIFICATION:

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DD Form 2446-1, JUL 87

P3A		INDIVIDUAL N	/IODIF	CATION																
MODELS OF SYSTEM AFFECTED:		, MCS-12 and	Fligh	t Safety			_		MOE	OFICATION	ON TITL	E <u>:</u>	AN/SPN	I-35C U _I	ograde (P	N409)				
DECORUPTION / II IOTIFICATION	selected s	shore sites.	_																	
DESCRIPTION/JUSTIFICATION:																				. =
This modification improves reliability and i			syste	m baselin	e. Ir	ne invent	ory ob	ective to	r this	item is to	urteen, d	of which e	leven ar	e OPN-f	unded, tw	o SCN-	funded	i, and or	ie RDT	&EN-
funded. The end-item is built by NAWCAI	J St. Irligor	es, MD.																		
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILESTONES	: LRIP	Decision	12/99	9; MS-III	Decis	ion 7/04	_											
	<u>Pi</u> QTY	rior Years \$	<u>F\</u> QTY	<u>/ 2005</u> \$	<u>F`</u> QTY	<u>Y 2006</u>	<u>F</u> QTY	Y 2007	<u>F`</u> QTY	<u>/ 2008</u> \$	<u>FY</u> QTY	<u>2009</u> \$	FY: QTY	<u>2010</u> \$	<u>FY</u> QTY	<u>2011</u> \$	QTY	<u>TC</u> / \$	<u>T</u> QTY	FOTAL \$
FINANCIAL PLAN (IN MILLIONS)																			oxtime	
RDT&E		4.844																-	+	4.844
PROCUREMENT																				
INSTALLATION KITS																		1		
INSTALLATION KITS NRE																		1		
EQUIPMENT NRE																		1		
EQUIPMENT 1/	6	9.327	4	7.576	1	2.748													11	19.651
Engineering Change Orders:																		1		
LRIP Upgrade 2/	3	1.415																1	3	1.415
EDM Upgrade 3/	1	0.341																	1	0.341
TRAINING EQUIPMENT 4/	Var.	1.057																1		1.057
INTEGRATED LOGISTICS SUPPORT		2.413		0.151		0.156		0.063												2.783
PRODUCTION ENGINEERING		4.046		0.312		0.426		0.284										1		5.068
QUALITY ASSURANCE		0.434																1		0.434
ACCEPTANCE, TEST & EVALUATION		2.142																1		2.142
INITIAL TRAINING		0.025				0.052												1		0.077
																		1		
INSTALL COST 5/	1	2.638	1	1.915	2	2.247	5	8.821	1	1.428	1	1.673							11	18.722
TOTAL PROCUREMENT		23.838		9.954		5.629		9.168		1.428		1.673								51.690

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O. 4

Exhibit P-3A (Individual Modification)

CLASSIFICATION

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1/ Unit cost increase in FY 2006 is due to high cost of individual components versus procurement of multiple units in FY 04/05.

cost

2/ LRIP Upgrade is required to bring an LRIP unit up to the production baseline. This upgrade to an in-production unit has no associated installation cost.

3/ This upgrade of an RDT&EN-funded test article (Engineering Development Model) to meet the production baseline will be incorporated in the In Service Engineering Agent's lab. The EDM is already installed and the upgrade requires no installation (installation costs negligible).

4/ Equipment is a set of Pre-Faulted Modules.

5/ Installation shift from FY 06 to FY 07 due to change in LHD-4 availability schedule. Shift from FY 08 to FY 09 due to change in LHD-3 availability schedule.

ELIVERY DATE: FY 2005: 12/06 FY 2006: 10/07 FY 2007: FY 2008:	P3A (Continued)																							
STALLATION INFORMATION: Alteration Installation Team	MODELS OF SYSTE	MS AFF	ECT						MOE	DIFICATIO	N TI	TLE:	AN/	SPN-35C	Upgra	de (PN40	9)							
DMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: Various	INSTALLATION INFO	ORMATI	ON:		ected s	snore s	sites.																	
ONTRACT DATES: FY 2005: 1/05 FY 2006: 12/06 FY 2006: 10/07 FY 2007: FY 2008: SELIVERY DATE: FY 2005: 12/06 FY 2006: 10/07 FY 2007: FY 2007: FY 2008: SELIVERY DATE: FY 2005: 12/06 FY 2006: 10/07 FY 2007: FY 2007: FY 2008: SELIVERY DATE: FY 2008: SELIVERY DATE: FY 2005: SELIVERY DATE: FY 2008: SELIVERY DATE: FY 2009: FY 2007: FY 2009: FY 2007: FY 2008: SELIVERY DATE: METHOD OF IMPLE	MENTA	TION	l: Alte	ration	Instal	lation	Team																	
Cost:	ADMINISTRATIVE LE	EADTIN	1E:		4 N	1onths	<u> </u>	PRODUC	CTION	LEADTIN	ИЕ: _	Various		<u> </u>										
Cost:	CONTRACT DATES: DELIVERY DATE:	:									-								_					
PRIOR YEARS 1 1 1.808 1 1 1.915 2 2.247 2 3.528											(\$ in	Millions)		_		_			-					
PRIOR YEARS 1 1 1.808 1 1 1.915 2 2.247 2 3.528 1	Cost:		Pri	or Years			F	Y 2005	F'	Y 2006		FY 2007	F	Y 2008	F'	Y 2009	FY	2010	F١	2011	To C	omplete		Total
FY 2005 EQUIPMENT			Qty	\$			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2006 EQUIPMENT	PRIOR YEARS		1	1.808			1	1.915	2	2.247														9.498
FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2010 EQUIPMENT FY 2010 EQUIPMENT FY 2011 EQUIPMENT FY 2011 EQUIPMENT FY 2011 EQUIPMENT FO COMPLETE INSTALLATION SCHEDULE: FY 2004											3	5.293	1	1.428										
FY 2008 EQUIPMENT															1	1.673							1	1.673
FY 2009 EQUIPMENT					-																			
FY 2010 EQUIPMENT																								
FY 2011 EQUIPMENT					-																			
INSTALLATION SCHEDULE: FY 2004 FY 2005 FY 2006 FY 2007 FY 2007 FY 2008															1									
INSTALLATION SCHEDULE: FY 2004 FY 2005 FY 2006		INI			-										-								-	
	INSTALLATION SI FY & In	Y 2004	1	2 3 0 0	4		0	3 4		2 3 1 1	1	1 2	3	0 0	2	3 4 0	0	2 3 0 0	0	1 2 0	3	0	0	11
																			/I I'		110			

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Exhibit P-3A (Individual Modification

CLASSIFICATION: UNCLASSIFIED

РЗА		INDIVIDUAL N	ODIFI	CATION																
MODELS OF SYSTEM AFFECTED:	CV/CVN a	and	Flight	Safety					MOE	DIFICATION	ON TITL	E:	AN/SPI	N-46(V)3	Unit 19 (Life Cyc	le Exte	ension) (PN41())
	selected s	hore sites.					-							. ,	,					
DESCRIPTION/JUSTIFICATION:			_																	
This modification is part of the AN/SPN-46 equipment lines include required encoders		Cycle Extension	progra	ım, which	n emb	odies upç	grades	s required	to ke	ep the sy	/stem op	erable ar	nd suppo	ortable ur	ntil its reti	rement (date of	2020. U	nit 19	
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILESTONES	: Miles	tone C L	RIP d	ecision e	xpecte	ed FY 200)6											
		rior Years		<u> 2005</u>		Y 2006		Y 2007		<u> 2008</u>		2009		2010		2011		<u>TC</u>		TOTAL
	QTY	\$	QTY	\$	QTY	′\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	′\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E		2.979		6.850		1.567													7	11.396
PROCUREMENT					1														1	
INSTALLATION KITS					1														1	
INSTALLATION KITS NRE					1														1	
EQUIPMENT NRE																			1	
EQUIPMENT																			1	
Equipment "B"																		1	1	
SPN-46 Radar Control Unit (Unit 19) / 2					2	2.639	4	5.377	5	6.583									11	14.599
Engineering Change Orders:						0.167		0.431		0.434									T	1.032
EDM Upgrade /1					2	1.380													2	1.380
INTEGRATED LOGISTICS SUPPORT		0.187				0.153		0.442		0.450		0.165								1.397
PRODUCTION ENGINEERING		0.990				0.285		0.774		0.676		0.196								2.921
QUALITY ASSURANCE						0.071		0.221		0.225		0.057								0.574
ACCEPTANCE TEST & EVALUATION						0.024														0.024
INITIAL TRAINING								0.032		0.068										0.100
																		<u> </u>	<u> </u>	
																		<u> </u>	<u> </u>	
																		↓	\bot	
			_		1	ļ	<u> </u>							ļ	ļ				₩	
			_		1	ļ	<u> </u>							ļ	ļ				₩	
INICTALL COOT /O					-	<u> </u>	_	4.07:	_	0.400		0.04:		<u> </u>	<u> </u>		-		16	7.461
INSTALL COST /3			_		1	. =	3	1.071	4	2.169	5	3.941		ļ	ļ		-	<u> </u>	12	7.181
TOTAL PROCUREMENT		1.177				4.719		8.348		10.605		4.359	L	<u> </u>	/odification	1	ı	CLASS		29.208

/1 This upgrade of two RDT&EN-funded test articles (Engineering Development Model) to meet the production baseline will be installed as operational units on CVN's.

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/2 Milestone B conducted 6 January 2005 approved by MDA. MS-C scheduled April 2006.

PAGE NO.

/3 One unit is a re-installation and will be funded from O&M,N.

CLASSIFICATION: UIN	CL/	43311	LIED																		
P3A (Continued)																					
MODELS OF SYSTEMS AF	FFECT		CVNs and	_	3	MOD	IFICATION	IT NC	ΓLE:		SPN-46(V Kits (PN		t 19 (Life	Cycle	Extensi	ion)					
INSTALLATION INFORMAT	TION:	3010	olou onon	o onoc	J.					Wiod	1413 (114	+10)									
METHOD OF IMPLEMENTA	ATION	l: Alter	ation Inst	allatio	n Team																
ADMINISTRATIVE LEADTI	ME:		4 Month	<u>is</u>	PRODU	CTION	LEADTI	ME: _	11	Mor	nths										
CONTRACT DATES: DELIVERY DATE:		FY 2005: FY 2005:	_				FY 2006: FY 2006:	-	4/06 3/07			FY 20 FY 20			3/08	-		2008: 2008:			<u> </u>
		.,	T						illions)											T	
Cost:		or Years			FY 2005		Y 2006		Y 2007		Y 2008		Y 2009		2010		2011		omplete		Total
PRIOR YEARS	Qty	\$	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2005 EQUIPMENT					-	-				-				-						-	
FY 2006 EQUIPMENT								3	1.071					1						3	1.071
FY 2007 EQUIPMENT								-	1.071	4	2.169			+ +						4	2.169
FY 2008 EQUIPMENT										7	2.100	5	3.941	1 1						5	3.941
FY 2009 EQUIPMENT												<u> </u>	0.0	1 1						T T	0.0
FY 2010 EQUIPMENT																					
FY 2011 EQUIPMENT																					
TO COMPLETE																					
INSTALLATION SCHED FY 2004 & Prior In 0		FY 2005 2 3 0 0	4 1 0 0	FY:	2006 3 4 0 0	1	FY 2007 2 3 4 0	4	1 2	2008 3 0	4 1 0	FY 20 2 0	009 3 4 0 0	1	FY 2010 2 3 0 0	4		2011 3 0	4 0	<u>TC</u>	TOTAL 12

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Exhibit P-3A (Individual Modification)

CLASSIFICATION: UNCLASSIFIED

		BUDGE	T ITEM JU	STIFICATION	ON SHEET	ı					DATE:				
		P-40									February 2	2006			
APPROPRIATION/BUDGET ACTIVITY															
Other Procurement, Navy															
Program Element for Code B Items:															
DESCRIPTION:															
	Prior	ID								То	Total				
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Program	1			
Quantity															
Cost (\$M)	\$114.7	B	\$13.1	\$18.2	\$27.6	\$25.4	\$29.0	\$29.7	\$30.4	Cont	Cont	1			

The Joint Department of Defense (DOD)/Federal Aviation Administration (FAA) National Airspace System (NAS) modernization program upgrades the DOD Air Traffic Control systems at Approach Control Facilities in concert with the Federal Aviation Administration's (FAA) upgrade of the National Air Traffic Control System. Since existing DOD Air Traffic Control facilities interface with the FAA's facilities, the military must maintain interoperability and retain vital special-use airspace for combat readiness training. These funds will procure Air Traffic Control systems for the Navy/Marine Air Traffic Control facilities.

The Air Force is the DoD lead activity for the Joint Acquisition Program. The Joint Program Office (JPO) is located at Hanscom AFB, MA.

The NAS Mod program received a full rate production decision on 7 June 2005 and is in the production and deployment phase following Milestone C.

FY 07 provides funding to procure: 4 DoD Advanced Automation Systems (DAAS); 2 Digital Airport Surveillance Radar (DASR); and 4 Tower Automation Systems (TAS).

(Exhibit P-40, page 1 of 10)

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS DATE: February 2006 P-40a APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE OTHER PROCUREMENT, NAVY/ BA 2 -**Communications and Electronic Equipment** 284000, NATIONAL AIR SPACE SYSTEM ID Prior Total FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Procurement Items Code Years Complete Program CB010 DOD ADVANCED AUTOMATION SYS Quantity 17 47 7,579 18,232 Funding 2,437 6,524 1,448 3,620 3,230 2,208 6,434 51,712 CB030 RADAR (DASR) 12 Quantity 30,182 14,598 34,437 119,904 6,681 12,231 9,318 12,457 Funding **CB040 TOWER AUTOMATION** Quantity 23 58 5,873 927 15,169 Funding 1,322 1,296 1,011 640 1,262 980 1,858 15,905 Other Costs N/A 60,446 9,323 10,382 12,304 8,741 12,246 14,775 Cont Cont 114,733 13,082 18,202 27,575 25,427 29,024 29,715 30,420 Total P-1 Funding Cont Cont

	WEAPONS SYSTEM COST ANALYSIS	Weapon S	ystem									DATE:
	P5											Februa
APPROF	PRIATION/BUDGET ACTIVITY								ID Code	P-1 ITEM NOI	MENCLATURE	
OTHER I	PROCUREMENT, NAVY\ BA 2 - Communications	and Electronic	Equipment							284000, NATI	ONAL AIR SPA	ACE SYSTEM
			Dollars in Thous	ands								
			Prior Years		FY 2005			FY 2006			FY 2007	
Cost Code	e Element of Cost	ID Code	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost
CB005	ECPS / OCIRS	В					VAR		776	VAR		530
CB010	DOD ADVANCED AUTOMATION SYS	В	18,232	1	2,437.	2,437	5	1,304.8	6,524	4	1,894.75	7,579
CB030	RADAR (DASR)	В	30,182							2	3,340.5	6,681
CB040	TOWER AUTOMATION	Α	5,873	3	440.67	1,322	6	216.	1,296	4	252.75	1,011
CB800	ILS	N/A	4,884			1,203			1,249			1,393
CB830	PRODUCTION ENGINEERING	N/A	25,310			4,565			4,724			4,883
CB900	NON-FMP INSTALLATION	N/A	29,049			3,555			3,633			5,498
CB990	INITIAL TRAINING	N/A	255									
0XVAR	VARIOUS	N/A	948									
			114,733			13,082			18,202			27,575

BUDGET PROCUREMENT HISTORY AND PI	LANNING	EXHIBIT (I	P-5A)			Weapon System		A. DATI	E	
								February	2006	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 IT	EM NOMENCLATURE			SUBHEA	D
OTHER PROCUREMENT, NAVY /	BA 2 - C	ommunication	ons and Electronic Equipment			284000, NATIONAL AIR SPACE SYSTEM			Y2	2CB
				RFP	Contract			Date of	Specs	Date
		Unit Cost		Issue	Method &		Award	First	Available	Revisions
Cost Element/FiscalYear	Qty	(000)	Location of PCO	Date	Type	Contractor and Location	Date	Delivery	Now	Available
CB010 DOD ADVANCED AUTOMATION										
SYS										
FY05	1	2,437	FAA, WASHINGTON DC	03/1996	IPR	RAYTHEON, MA	01/2005	01/2006	YES	
FY06	5	1,305	FAA, WASHINGTON DC	03/1996	IPR	RAYTHEON, MA	01/2006	01/2007	YES	
FY07	4	1,895	FAA, WASHINGTON DC	03/1996	IPR	RAYTHEON, MA	01/2007	01/2008	YES	
CB030 RADAR (DASR)										
FY07	2	3,341	USAF, HANSCOM AFB	02/1996	MIPR	RAYTHEON, MA	01/2007	01/2009	YES	
CB040 TOWER AUTOMATION										
FY05	3	441	SPAWAR CHARLESTON	N/A	PO	PEN-TECH CHASN, SC	01/2005	01/2006	YES	
FY06	6	216	SPAWARSYSCEN CHARLESTON SC	N/A	PO	PEN-TECH CHASN, SC	01/2006	01/2007	YES	
FY07	4	253	SPAWARSYSCEN CHARLESTON SC	N/A	PO	PEN-TECH CHASN, SC	01/2007	01/2008	YES	

REMARKS:

^{1/} DOD Advanced Automation System (DAAS) unit costs vary per site. P-5 page unit cost is only average of sites each year. Delivery dates are for Navy DAAS.

^{2/} RADAR is Digital Airport Surveillance Radar (DASR).3/ Tower Automation is a Government proprietary system and unit costs vary per site.

^{4/} The NAS Mod program received a full rate production decision on 7 June 2005 and is in the production and deployment phase following Milestone C.

Exhibit P-3a																						
MODELS OF SYSTEMS AFF	ECTED:	NAS						TYPE MOD	DIFICATION	N:							MODIFICA	TION TITLI	i:	CB010 - DO	O ADVANCED AUTOMAT	TON SYSTEMS
DESCRIPTION / JUSTIFICA	TION:																					
The DOD Advanced Autom obsolete equipment and co	nation Syste mply with th	em (DAAS) is ne joint DOD	s being dev /FAA mode	veloped as pernization pr	eart of a join	t DOD/FAA ements. D	program t	o modernize les for proce	and stand	lardize Air T displays for	raffic Contr tower and	rol equipmer approach co	nt in the Na ontrols.	ational Air Tr	affic Contro	ol System.	The system	ns will be ins	stalled at N	avy Air Traffid	Control facilities to replace	æ aging,
DEVELOPMENT STATUS/MA			MILESTON	NES:	MILESTON	IE C (7 JUN	IE 2005)															
	PRIOR	YEARS	FY:	2005	FY 2	2006	FY:	2007	FY 2	2008	FY 2	2009	FY	2010	FY 2	2011	TO CO	MPLETE	<u>TO</u>	<u>TAL</u>		
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS INSTALLATION KITS NONRECURRING																						
EQUIPMENT*	17	18.232	1	1.512	5	5.780	4	7.048	3	1.448	4	3.620	4	3.230	4	2.208	5	6.434	47	49.512		
ECP						0.612		0.411		0.277		0.595		0.701		0.827	-	CONT		CONT		
ENGINEERING CHANGE ORDERS										¥.=						0.00						
DATA																						
TRAINING EQUIPMENT			1	0.925	1	0.744	1	0.531											3	2.200		
SUPPORT EQUIPMENT				5.520				2.201														
ILS		1.751		0.304		0.292		0.299		0.281		0.273		0.291		0.294		CONT		CONT		
PRODUCTION ENGINEERING		7.635		2.131		1.910		2.079		1.791		1.951		1.804		1.633		CONT		CONT		
INITIAL TRAINING		0.255		2.131		1.310		2.019		1.791		1.331		1.004		1.000		CONT		0.255		
ACCEPTANCE TEST & EVALUATION		0.255																		0.235		
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	14	17.101	2	1.737	2	2.335	5	4.606	4	2.921	3	3.213	4	4.122	4	4.131	9	7.302	47	47.468		
TOTAL PROCUREMENT		44.974		6.609		11.673		14.974		6.718		9.652		10.148		9.093		CONT		CONT		

^{*}FY2007 equipment includes 4 Transition Digitizers required for installation in DAAS in FY 2008.

MODELS OF SYSTEMS AFFE	CTED:	NAS					-										MODIFICA	TION TITL	E:	CB010 - D	OD ADVAN	ICED AUTO	DMATION S	YSTEMS	
INSTALLATION INFORMATIO	N:																								
METHOD OF IMPLEMENTATI	ON:					AIT			<u>.</u>																
ADMINISTRATIVE LEADTIME	:					3		Months				PRODUCT	TION LEAD	ГІМЕ:		1	12		Months						
CONTRACT DATES:			FY 2005	Jan	-05			-	FY 2006		Jar	-06				FY 2007		Jan-07				FY 2008			
DELIVERY DATE:			FY 2005	Jan	-06			-	FY 2006		Jan	-07				FY 2007		Jan-08				FY 2008			
												(C in Million	\												
												(\$ in Million													l
Cost:				YEARS		2005		2006		2007	FY:		FY:			2010		2011		MPLETE		MPLETE	TO ⁻		l
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	l
PRIOR YEARS EQUIPMENT			14	17.101	2	1.737	1	0.741															17	19.579	l
FY 2005 EQUIPMENT							1	0.741															1	0.741	
FY 2006 EQUIPMENT							AP	0.853	5	3.215													5	4.068	l
FY 2007 EQUIPMENT									AP	1.391	4	2.775											4	4.166	
FY 2008 EQUIPMENT											AP	0.146	3	2.030									3	2.176	
FY 2009 EQUIPMENT													AP	1.183	4	2.731							4	3.914	l
FY 2010 EQUIPMENT															AP	1.391	4	3.144					4	4.535	l
FY 2011 EQUIPMENT																	AP	0.987	4	4.022			4	5.009	l
TO COMPLETE EQUIPMENT																			5	3.280			5	3.280	
TO COMPLETE																									l
	Installation	Schedule				ı																ı			
	PRIOR YEARS	ı	FY 2	2005				2006			FY 2				FY:	2008			FY 2		1		FY 2		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	16	0	1	0	0	0	1	0	0	0	2	2	1	0	2	2	0	0	2	1	0	0	2	2	0
Out	14	0	1	1	0	0	1	1	0	0	2	2	1	0	0	2	2	0	0	2	1	0	0	2	2
													4												
		FY 2	011			TO CO	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	tal													
In	0	2	2	0	0	0	0	0		9	4	7													
		0	2	2	0	0	0	0					I												

CLASSIFICA	ATION: U	INCLA.	SSIFIE																				
Exhibit P-3a																							
MODELS OF SYSTEMS AFFE	ECTED:	NAS						TYPE MOI	DIFICATION	N :						-	MODIFICA	TION TITL	E:	CB030 - DIG	SITAI AIRPORT SUR	RVEILLANCE RADA	AR (DASR)
DESCRIPTION / JUSTIFICA	TION:																						
The Digital Airport Surveilla approach control radars and								nodernize a	nd standar	dize air traff	ic control e	quipment ir	the Nation	al Air Traffid	Control Sy	ystem. The	DASR will I	be installed	at Navy ai	ir traffic contro	I facilities to replace	aging, obsolete	
DEVELOPMENT STATUS/MA	JOR DEVE	LOPMENT	MILESTO	NES:	MILESTON	IE C (7 JUN	IE 2005)																
Financial Dlag (in Milliana)	PRIOR QTY	YEARS \$		<u>2005</u> \$		2006 \$	FY 2	2 <u>007</u> \$	FY:	2008		2009 \$	FY :	<u>2010</u> \$		<u>2011</u> \$	TO CON	MPLETE \$		<u>TAL</u>			
Financial Plan (in Millions) RDT&E	QIT	3	QTY	•	QTY	\$	QIY	a a	QIT	\$	QTY	\$	QIT	\$	QTY	\$	QTY	,	QTY	\$			
PROCUREMENT																							
INSTALLATION KITS																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT	12	30.182					2	6.681	5	14.598	4	12.231	3	9.318	4	12.457	10	34.437	40	119.904			
ECP																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
ILS		1.743		0.709		0.659		0.871		0.246		0.248		0.271		0.289		CONT		CONT			
PRODUCTION ENGINEERING		6.682		1.037		0.793		0.984		0.872		1.004		0.965		0.930		CONT		CONT			
QUALITY ASSURANCE		0.002		1.037		0.193		0.304		0.072		1.004		0.303		0.330		CONT		CONT			
ACCEPTANCE TEST & EVALUATION																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							

3.066

16.549

0.429

16.145

9.019 AP

47.626

0.617

2.363

0.823

2.275

INSTALL COST

TOTAL PROCUREMENT

4.408

18.084

5.610

16.164

11.041

CONT

35.013

CONT

MODELS OF SYSTEMS AFF	ECTED:	NAS					=										MODIFICA	TION TITL	E:	CB030 - D	IGITAI AIR	PORT SUR	VEILLANCE	E RADAR (E	ASR)
INSTALLATION INFORMATION	ON:																								
METHOD OF IMPLEMENTAT	TION:					AIT																			
ADMINISTRATIVE LEADTIM	E:					3		Months				PRODUCT	ΓΙΟΝ LEAD	TIME:		2	24		Months	<u> </u>					
CONTRACT DATES:			FY 2005	5Ja	n-05			-	FY 2006					-		FY 2007		Jan-07		-		FY 2008			
DELIVERY DATE:			FY 2005	5 <u>Ja</u>	n-07			=	FY 2006					=		FY 2007		Jan-09		=		FY 2008			
												(\$ in Million	ns)												
Cost:			PRIOR	RYEARS	EV	2005	FV	2006	FV	2007		2008		2009	FV	2010	FY:	2011	TO CO	MPLETE	TO CO	MPLETE	TO	ΤΔΙ	
0031.			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT			g	9.019		0.617		0.823															10	10.459	
FY 2005 EQUIPMENT																									
FY 2006 EQUIPMENT																									
FY 2007 EQUIPMENT											AP	0.429	2	0.906									2	1.335	
FY 2008 EQUIPMENT													AP	2.160	5	3.836							5	5.996	
FY 2009 EQUIPMENT															AP	1.774	4	3.069					4	4.843	
FY 2010 EQUIPMENT																	AP	1.339	3	1.790			3	3.129	
FY 2011 EQUIPMENT																			4	5.455			4	5.455	
TO COMPLETE EQUIPMENT	-																		10	3.796			10	3.796	
TO COMPLETE																									
	Installation	n Schedule																							
	PRIOR		FY	2005			FY	2006			FY	2007			FY	2008			FY:	2009			FY 2	2010	
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	9	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	2	0
Out	9	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	2
		FY	2011			то со	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	2	2	0	0	0	0	0		17	;	38													
Out	0	0	2	2	0	0	0	0		17] ;	38													

CLASSIFICA	TION: U	NCLAS	SSIFIE	D																
Exhibit P-3a																				
ODELS OF SYSTEMS AFFE	ECTED:	NAS					-	TYPE MOI	DIFICATION	N:	MODERNI	ZATION					MODIFICA	TION TITL	E:	CB040 - T
DESCRIPTION / JUSTIFICA	TION:																			
The Tower Automation is be comply with the joint DOD/F					ogram to m	odernize ar	nd standard	lize air traffi	c control eq	uipment in	the Nationa	al Air Traffic	Control Sy	stem. The	Tower Auto	mation will t	be installed	at Navy air	r traffic cont	trol facilities
EVELOPMENT STATUS/MA	JOR DEVE	LOPMENT	MILESTON	IES:	AAP PROI	DUCTION E	DECISION (September	2002)											
	DDICS	VEADO	EV	2005	EV	2000	EV	2007	EV	2000	E.	2000	E.	2040	EV.	2044	TO 001	ADI ETE		TA1
Financial Plan (in Millions)	PRIOR QTY	YEARS \$	QTY	<u>2005</u> \$	QTY	<u>2006</u> \$	QTY	<u>2007</u> \$	QTY	<u>2008</u> \$	QTY	<u>2009</u> \$	QTY	<u>2010</u> \$	GTY	<u>2011</u> \$	TO COM	MPLETE \$	QTY	TAL \$
PDT&E				,						·				Ť						
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	23	5.873	3	1.322	6	1.296	4	1.011	3	0.640	4	0.927	6	1.262	4	0.980	5	1.858	58	15.169
ECP 1 Grp "A"						0.164		0.119		0.092		0.192		0.228		0.268		CONT		CONT
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS		1.390		0.190		0.298		0.223		0.226		0.224		0.286		0.289		CONT		CONT
PRODUCTION ENGINEERING		10.993		1.397		2.021		1.820		1.047		1.011		0.994		0.919		CONT		CONT
QUALITY ASSURANCE																				
ACCEPTANCE TEST & EVALUATION																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				

0.469

2.823

0.633

3.403

0.787

3.243

1.579

CONT

9.524

CONT

1.201

4.110

2.929

21.185

0.475

4.254

0.892

4.065

0.559

2.564

INSTALL COST

TOTAL PROCUREMENT

MODELS OF SYSTEMS AFFEC	CTED:	NAS					=										MODIFICA	ATION TITL	E:	CB040 - T0	OWER AUT	FOMATION			
INSTALLATION INFORMATION	N:																								
METHOD OF IMPLEMENTATIO	ON:					AIT			_																
ADMINISTRATIVE LEADTIME:						3		Months	<u>.</u>			PRODUC	TION LEAD	TIME:		1	2		Months*	·					
CONTRACT DATES:			FY 2005	Ja	า-05			_	FY 2006		Jai	n-06		-		FY 2007		Jan-07				FY 2008			
DELIVERY DATE:			FY 2005	Ja	n-06			-	FY 2006		Jai	n-07		<u>-</u>		FY 2007		Jan-08				FY 2008			
												(\$ in Millio					<u> </u>								
Cost:			PRIOR Qty	YEARS \$	FY Qty	2005	Qty	2006	Qty	\$	Qty	2008	Qty	2009	Qty	2010 \$	Qty	2011 \$	TO COM	MPLETE \$	TO COM	MPLETE \$	Qty	TAL \$	
PRIOR YEARS EQUIPMENT			21	2.929				φ	Qty	φ	Qiy	9	Qiy	Ψ	Qiy	φ	Qty	φ	Qty	φ	Qty		23		
Y 2005 EQUIPMENT			21	2.525		1.20	3	0.441															3	0.441	
/ 2006 EQUIPMENT							AP	0.034	. 6	0.869													6	0.903	
2007 EQUIPMENT									AP	0.023		0.541											4	0.564	
2008 EQUIPMENT											AP	0.018	3	0.445									3	0.463	
2009 EQUIPMENT													AP	0.024	4	0.603							4	0.627	
2010 EQUIPMENT															AP	0.030	6	0.763					6	0.793	
2011 EQUIPMENT																	AP	0.024	4	0.575			4	0.599	
O COMPLETE EQUIPMENT																			5	1.004			5	1.004	
COMPLETE																									
lr	nstallation	Schedule																							
	PRIOR		FY:	2005			FY	2006			FY	2007			FY	2008			FY 2	2009	•		FY 2	2010	•
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	21	0	2	0	0	0	1	2	0	0	2	2	2	0	2	2	0	0	1	2	0	0	2	2	0
ut	21	0	0	2	0	0	0	1	2	0	0	3	3	0	0	2	2	0	0	1	2	0	0	2	2
r					ı				1		1		1												
<u> </u>		FY 2					MPLETE		ł																
	1	2	3	4	1	2	3	4		mplete		otal	-												
1	0	2	2	2	0	0	0	0	1	9		58	-												
Out	0	0	3	3	0	0	0	0	I	9	1 :	58	I												

CLASSIFICATION: UNCLASSIFIED (Exhibit P-3a, page 10 of 10)

^{*}Production Leadtime varies per site. Using 12 months as an average.

	!	BUDGE	T ITEM JU	STIFICATI	ON SHEET	•					DATE:
		P-40									February 200
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM	NOMENCL	ATURE		
Other Procurement, Navy	BA 2 - Co	mmuni	cations an	d Electror	ic Equipm	ent	284500, A	IR STATIO	N ATC EQ	UIPMENT	
Program Element for Code B Items:							Other Rela	ted Progra	m Element	S	
							0204696N				
	Prior	ID								То	Total
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Program
Quantity											
Cost (\$M)	\$142.7		\$3.6	\$3.9	\$4.0	\$4.1	\$4.2	\$4.3	\$4.4	Cont	Cont

DESCRIPTION:

The Chief of Naval Operations (CNO) tasked the Naval Air Systems Command (NAVAIR) with the requirement to provide shore based Air Traffic Control (ATC) terminal facilities and equipment that is required in joint efforts to efficiently and safely monitor and direct military and commercial air traffic in national and international air space. Many of these systems are required to interface through automated means with the Federal Aviation Administration (FAA). Additionally, NAVAIR has material support responsibility for Air Navigation Aid Systems, Mobile ATC Equipment, Special Instrumentation Systems, and Ancillary Equipment used at Navy and Marine Corps Aviation Shore activities in the continental United States and overseas.

- (1) Communications Systems Upgrade Program This program procures and installs advanced, commercial state-of-the-art, ATC voice switching and recording/reproduction equipment which will be used to replace aging AN/FSA-52/58 and OJ-314 voice communication switching systems and the RD-379/379A/390 and RP-214 recorder/reproducers. Existing equipment uses 1950's toggle switch & 1960's push-button analog technology that is becoming logistically unsupportable.
- (2) UHF/VHF Radio Replacement Program This program modernizes unsupportable Navy and Marine Corps UHF/VHF voice communication transmitter and receiver equipment. This equipment is the central core of all critical Air Traffic Control communications. This program is replacing the aging AN/GRT-21/22 VHF/UHF (10 watt) transmitters, AM-6154/GRT-21 & AM-6155/GRT-22 VHF/UHF (50 watt) Linear Power Amplifiers, and AN/GRR-23/24 VHF/UHF receivers. This is a safety-of-flight issue.
- (3) Engineering Change Proposal (ECP)/Operational Capability Improvement Request (OCIR) modernization: The ECP/OCIR program provides for the procurement, and or modification, of critically needed communications, radar, displays, data processors, and other electronic systems/equipment needed at Navy/Marine Corps Air Traffic Control facilities worldwide. ECP/OCIR procurements replace and modernize costly-to-maintain systems and equipment in order to increase Air Traffic Control efficiency and safety, and reduce total ownership costs. The OCIR program is directed by OPNAVINST 3721.5K.
- (4) Fiber Optic Intersite System (FOIS) Upgrade Program This effort will upgrade and replace obsolete and unsupportable components and assemblies being used in the AN/FAC-6(V)1 Fiber Optic Intersite System (FOIS) required for Precision Approach Radar (PAR) operations and the AN/FAC-6(V)4 FOIS required for ATC voice communications at Naval and Marine Corps Air Station (NAS/MCAS) facilities. This program ensures continued capability of these critical ATC systems.
- (5) UHF/VHF Transceiver Replacement Program This program modernizes aging Navy and Marine Corps UHF/VHF Transceivers that are the central core of all Air Traffic Control emergency communications. The program will procure Non-Developmental Items (NDIs) developed for the FAA as form, fit and function replacements of the aging AN/GRC-171/211 UHF/VHF Transceivers.
- (6) Emergency Communication System Upgrade Program-This program modernizes obsolete and unsupportable Emergency Communications System (ECS) equipment. Voice Switches, Recorders, Reproducers, Uninterruptable Power Supplies, and Built-In Test Equipment will be replaced with the same equipment that was incorporated in the Operational Communications System (OCS) by the Communications Systems Upgrade Program.

Funding in FY 2006 includes supplemental funding received for hurricane efforts.

Funding in FY 2007 is provided to procure: 6 FOIS Upgrades (MR430), 20 UHF/VHF Transceiver Replacements (MR440), and 2 Emergency Communication Systems (MR445)

BUDGET ITEM JUSTIFICATION SHEET											T	
FOR AGGREGATED ITEMS											DATE:	
P-40a											February 2	2006
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM I	JOMENICI	ATLIDE		rebruary 2	2006
OTHER PROCUREMENT, NAVY/ BA 2 -							F-IIIEIVII	NOMENCE	ATURE			
Communications and Electronic												
Equipment							284500, A	D STATIO	N ATC FO	HIDMENT		
Equipment	ID	Prior					204300, A	IK STATIO	HAIOLW	To	Total	
Procurement Items	Code	Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Program	
MR069 ECP/OCIR	N/A											
Quantity		170		1	3	2	2	1	1			
Funding		6,292		17	515	423	444	264	312			
												•
MR407 UHF/VHF RADIO REPLACEMENT 2/	N/A											
Quantity		2,914	428	521							3,863	
Funding		13,973	2,269	2,814							19,056	
MR408 COMM SYSTEM UPDATE	N/A											
Quantity		49									49	
Funding		14,346									14,346	
MR430 FIBER OPTIC INTERSITE UPGRADE	N/A											
Quantity					6	7	7	7	5	3	35	
Funding					954	1,134	1,155	1,176	855	525	5,799	
MR440 UHF/VHF TRANSCEIVER REPLACEMENT	N/A											
Quantity					20	20	20	30	40	200	330	
Funding					306	312	318	486	660	3,360	5,442	
MR445 EMERGENCY COMMUNICATION SYSTEM	N/A											
Quantity					2	2	2	3	4	20	33	
Funding					636	650	662	1,014	1,380	7,040	11,382	
Other Costs	N/A	108,126	1,346	1,073	1,557	1,562	1,589	1,324	1,157	Cont	Cont	
Total P-1 Funding		142.737	3.615	3.904	3.968	4.081	4.168	4.264	4.364	Cont	Cont	
. o.c		172,707	0,010	0,004	5,500	7,00	4,100	7,207	7,304	Cont	Oon	

	WEAPONS SYSTEM COST ANALYSIS	Weapon S	ystem									DATE:	
	P5											Februa	ry 2006
APPROP	RIATION/BUDGET ACTIVITY								ID Code	P-1 ITEM NO	MENCLATURE		
OTHER F	PROCUREMENT, NAVY\ BA 2 - Communications and	l Electronic	Equipment						N/A	284500, AIR S	STATION ATO	EQUIPMENT	
			Dollars in Thousa	ands									
			Prior Years		FY 2005			FY 2006			FY 2007		
					1 1 2000			1 1 2000			1 1 2001		
Cost Code	Element of Cost	ID Code	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	
MR069	ECPS/OCIRS	N/A	6,292				1	17.	17	3	172	515	
MR407	UHF/VHF RADIO REPLACEMENT 2/	N/A	13,973	428	5	2,269	521	5	2,814				
MR408	COMM SYSTEM UPDATE	N/A	14,346										
MR430	FIBER OPTIC INTERSITE UPGRADE	N/A								6	159	954	
MR440	UHF/VHF TRANSCEIVER REPLACEMENT	N/A								20	15	306	
MR445	EMERGENCY COMMUNICATION SYSTEM	N/A								2	318	636	
MR800	ILS	N/A	6,350			191			216			260	
MR830	PRODUCTION ENGINEERING SUPPORT	N/A	16,099			232		*	529			426	
MR900	NON-FMP INSTALLATION	N/A	33,896			822			328			871	
MR990	INITIAL TRAINING	N/A	1,461			101							
	VARIOUS/1		50,320										
			142,737			3,615			3,904			3,968	
	*/FY06 Production Engineering funding												
	includes \$100K supplemental funding for												
	hurricane expenses, issue 62430												
	1/ The amount identified against this cost												
	element reflects total prior year funding												
	associated with cost elements no longer												
	financed in FY2004 and beyond.												
		1											

BUDGET PROCUREMENT HISTORY AND PLA	NNING I	EXHIBIT (P-	5A)			Weapon System		A. DATE	Ε	
								February	2006	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD)
OTHER PROCUREMENT, NAVY /	BA-2	COMMUN	ICATIONS AND ELECTRONICS EQUIPMENT		284500, AIR STATION ATC EQUIP	MENT				MR
				RFP				Date of		Date
		Unit Cost		Issue			Award	First	Available	Revisions
Cost Element/FiscalYear	Qty	(000)	Location of PCO	Date	Contract Method & Type	Contractor and Location	Date	Delivery	Now	Available
MR407 UHF/VHF RADIO REPLACEMENT										
FY06	521	5		6/03	FFP/OPTION	GENERAL DYNAMICS, SCOTTSDALE AZ	12/05	5/06	YES	
									1	
MR430 FIBER OPTIC INTERSITE UPGRADE									1	
FY07	6	159	SSC, CHASN, SC	6/06	PO	TBD	01/07	05/07	1	
MR440 UHF/VHF TRANSCEIVER										
REPLACEMENT										
FY07	20	15	TBD	TBD	TBD	TBD	TBD	TBD		
							1		1	
MR445 EMERGENCY COMMUNICATION							1		1	
SYSTEM							1		1	
FY07	2	318	TBD	TBD	TBD	TBD	TBD	TBD		
		1					<u> </u>		 	
			I e e e e e e e e e e e e e e e e e e e	1		I control of the cont		1		1

REMARKS: SSC-SPAWAR Systems Center

Exhibit P-3a																				
MODELS OF SYSTEMS AFFE	ECTED:			Air Station	1		-	TYPE MOI	DIFICATIO	N:						-	MODIFIC	ATION TITI	LE:	MR069 - I
DESCRIPTION / JUSTIFICA procurements replace and n	ATION: The nodernize o	ECP/OCIR ostly-to-mai	program (ntain syste	(MR069) pro ems and eq	ovides for th juipments in	ne procuren order to in	nent, and o crease Air	r modificatio Traffic Cont	on, of critica rol efficien	ally needed cy and safe	communica ty, improve	ations, radar affordable	r, displays readiness,	, data proces and reduce	ssors, and ototal owne	other electro	onic syster	ns/equipme	nt needed	at Navy/Ma
DEVELOPMENT STATUS /	MAJOR DE	EVELOPME	NT MILES	STONES: N	NA															
	PRIOR	VEADO	EV	2005	EV	<u> 2006</u>	EV	2007	EV	2008	EV	200 <u>9</u>	FV	<u>2010</u>	EV	201 <u>1</u>	TO CO	MPLETE	Τ.	OTAL.
Financial Disc (in Millians)																				
Financial Plan (in Millions) RDT&E	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT															_					
EQUIPMENT NONRECURRING																				
ECP 1 Grp "A"	170	6.292			1	0.017	3	0.515	2	0.423	2	0.444		1 0.264	1	0.312	Cont	Cont	Cont	Cont
DATA																				
TRAINING EQUIPMENT														1						
SUPPORT EQUIPMENT																				
ILS PRODUCTION		0.080						0.090		0.041		0.046		0.020		0.046		Cont		Cont
ENGINEERING		0.285			*	0.034		0.087		0.047		0.057		0.017		0.052		Cont		Cont
QUALITY ASSURANCE ACCEPTANCE TEST &																				
EVALUATION																				
OTHER INTERIM CONTRACTOR		79.870																		79.87
SUPPORT																				
INSTALL COST	170	10.542			1	0.004	3	0.231	2	0.158	2	0.161		1 0.074	1	0.085		Cont		Cont
TOTAL PROCUREMENT		97.069				0.055		0.923		0.669		0.708		0.375		0.495	Cont	Cont	Cont	Cont

^{*} FY06 Production Engineering includes \$100K supplemental funding for hurricane expenses, issue # 62430.

MODELS OF SYSTEMS AFFE	ECTED:			Air Station			-										MODIFICA	ATION TITL	E:	MR069 - E	ECPS/OCIR	S			
INSTALLATION INFORMATIO	DN:																								
METHOD OF IMPLEMENTATI	ION:					AIT			:																
ADMINISTRATIVE LEADTIME	i:						Mont	hs (Various)	•			PRODUCT	ION LEAD	ГІМЕ:				Mont	hs (Various)	-					
CONTRACT DATES:			FY 2005		N/A				FY 2006		N	I/A				FY 2007		N/A				FY 2008		N/A	
DELIVERY DATE:			FY 2005		N/A				FY 2006		N	I/A				FY 2007		N/A				FY 2008		N/A	
												(\$ in Million	ns)												ı
Cost:			PRIOR	YEARS	FY	2005	FY 2	2006	FY	2007	FY	2008	FY 2	2009	FY:	2010	FY	2011	TO COM	MPLETE	TO CO	MPLETE	тот	AL	Ī
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	i
PRIOR YEARS EQUIPMENT			170	10.542																			170	10.542	i
FY 2005 EQUIPMENT																									•
FY 2006 EQUIPMENT							1	0.004															1	0.004	
FY 2007 EQUIPMENT									3	0.231													3	0.231	
FY 2008 EQUIPMENT											2	0.158											2	0.158	
FY 2009 EQUIPMENT													2	0.161									2	0.161	
FY 2010 EQUIPMENT															1	0.074							1	0.074	Ī
FY 2011 EQUIPMENT																	1	0.085					1	0.085	
TO COMPLETE EQUIPMENT																									
TO COMPLETE																					CONT	CONT	CONT	CONT	Ī
	Installation PRIOR YEARS			2005				2006				2007				2008				2009			FY 2		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	170	0	0	0	0	0	1	0	0	0	1	2	0	0	1	1	0	0	1	1	0	0	1	0	0
Out	170	0	0	0	0	0	0	1	0	0	0	1	2	0	0	1	1	0	0	1	1	0	0	0	1
					I			1					I												
	ļ ,	FY 2	2011			TO CO	MPLETE	ı																	
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	1	0	0					co	ONT	CC	ONT													
Out	0	0	0	1					CC	DNT	CC	ONT													

Exhibit P-3a																					
MODELS OF SYSTEMS AFF	ECTED:		Δ	AIR STATIC)N			TYPE MO	DIFICATIO	N:							MODIFICA	ATION TITL	E:	MR407 - UI	HF/VHF RADIO REPLACEMENT
				0			•									-					
by Motorola for the FAA as	form, fit, an	d function re	eplacement	s of the ag	ing AN/GR	T-21/22 VH	F/UHF (10	watt) trans	mitters, AM	-6154/GRT	-21 & AM-	6155/GRT-2	22 VHF/UH	F (50 watt)	Linear Pow	er Amplifie	rs, and AN/	GRR-23/24	VHF/UHF	receivers that	ocuring Non-Developmental Items (NDIs) at are the same as those used by the Nans due to equipment and parts obsolesce
DEVELOPMENT STATUS	MAJOR DI	EVELOPME	ENT MILES	TONES: N	Ion-Develo	omental Iten	n (NDI)														
	PRIOR	YEARS	FY:	2005	FY	2006	FY	2007	FY	2008	FY	2009	FY	2010	FY	<u> 2011</u>	TO CO	MPLETE	TC	<u>OTAL</u>	
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	 \$	QTY	\$	QTY	 S	QTY	\$	QTY	\$	QTY	 \$	QTY	\$	QTY	<u>-</u>	
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS																					
INSTALLATION KITS NONRECURRING																					
EQUIPMENT	2,914	13.973	428	2.269	521	2.814													3,863	3 19.056	
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
ILS		0.411		0.042		0.050														0.503	
PRODUCTION ENGINEERING		0.966		0.100)	0.104														1.170	
QUALITY ASSURANCE																					
ACCEPTANCE TEST & EVALUATION																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	2,914	1.962	428	0.284	521	0.324													3,863	3 2.570	
TOTAL PROCUREMENT		17.312		2.695		3.292														23.299	

MODELS OF SYSTEMS AFFE	ECTED:	AIR STATI	ON				.										MODIFICA	TION TITL	E:	MR407 - U	JHF/VHF RA	ADIO REPL	ACEMENT 2	y.	
INSTALLATION INFORMATIO	ON:																								
METHOD OF IMPLEMENTATI	ION:					AIT																			
ADMINISTRATIVE LEADTIME	≣:					2		Months	-			PRODUCT	ΓΙΟΝ LEAD	TIME:			5		Months	<u>-</u>					
CONTRACT DATES:			FY 2005		Dec 04				FY 2006		Dec	c-05				FY 2007				-		FY 2008			
DELIVERY DATE:			FY 2005	Ma	y-05				FY 2006		Mag	y-06				FY 2007				-		FY 2008			
												(\$ in Million	ns)												
Cost:			PRIOD	YEARS	F۷	2005	EV /	2006	EV	2007		2008		2009	EV	2010	EV '	2011	TO COM	MPLETE	TO COM	MPLETE	TOTA	AI	ĺ
Cost.			Qty	\$	Qty	2005 S	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	S	Qty	WPLETE \$	Qty	s.	l
PRIOR YEARS EQUIPMENT			2,914	1.962	4.9	Ů	u.,	Ť	uty	Ů	u.,	Ť	u.ij	Ť	u.y	Ů	4.9	Ť	u.y	Ů	u.y	Ť	2,914	1.962	
FY 2005 EQUIPMENT			_,,,,,		428	0.284																	428	0.284	
FY 2006 EQUIPMENT							521	0.324															521	0.324	
FY 2007 EQUIPMENT																									
FY 2008 EQUIPMENT																									
FY 2009 EQUIPMENT																									l
FY 2010 EQUIPMENT																									l
FY 2011 EQUIPMENT																									l
TO COMPLETE EQUIPMENT																									l
TO COMPLETE																									l
	Installation PRIOR YEARS	Schedule 1	FY 2	2005	4	1	FY 2	2006	4	1	FY 2	2007	4	1	FY:	2008	4	1	FY 2	2009	4	1	FY 20	010	4
In	2914	0	0	428	0	0	0	521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	2914	0	0	0	428	0	0	0	521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		FY 2	2011			TO COI	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	0	0	0						0	38	363	1												

Exhibit P-3a																						
MODELS OF SYSTEMS AFFI	ECTED:			AIR STATIO	N		_	TYPE MO	DIFICATIO	N:							MODIFICA	ATION TITL	E:	MR408 - C	OMMUNICATION SYSTEM UP	GRADE
DESCRIPTION/JUSTIFICATION	ON:						_															
Existing systems and equ Navy is a Non-Developm obtained through a contra recorder/reproducers syst	ipment use ental Item, o ect awarded ems neede	1950's togg developed b by our coor d per each o	gle switch & y the FAA rdinating ficommunica	& 1960's pus via a, full ar eld activity, s ations syster	sh-button al nd open col SPAWAR (m upgrade	nalog techn mpetition, c Charleston, shown belo	ology, are nontract which SC. The exw.	o longer in ch was awa	production, rded by the	and causin	g numerous	s casualty re e recorder/r	eports (CAS reproducer :	REPs) and systems sel	logistics su ected for us	pportability e by the Na	problems of avy are cor	lue to syste nmercial ite	m and parts ms produce	s obsolescen ed by Advand	D-379/379A/390 and RP-214 rece. The voice switching system and Integrated Recorders, Inc. arine Corps Air Stations with up to	selected for use b and Denro and are
DEVELOPMENT STATUS /	MAJOR DE	EVELOPME	NT MILES	STONES: N	lon-Develo	pment Item	(NDI)															
	PRIOR	YEARS	FY	2005	FY	2006	FY	2007	<u>FY</u>	2008	FY	2009	<u>FY</u>	2010	FY:	<u>2011</u>	TO CO	MPLETE	<u>TO</u>	TAL		
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
RDT&E																						
ROCUREMENT																						
INSTALLATION KITS																						
NONRECURRING																						
EQUIPMENT EQUIPMENT	49	14.346																	49	14.346		
NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
ILS		0.870		0.149																1.019		
PRODUCTION ENGINEERING		2.281		0.132																2.413		
INITIAL TRAINING		0.622		0.101																0.723		
ACCEPTANCE TEST & EVALUATION																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	45	10.237	4	0.538															49	10.775		
TOTAL PROCUREMENT		28.356		0.920																29.276		

MODELS OF SYSTEMS AFFE	ECTED:	AIR STATI	ON				-										MODIFICA	TION TITL	E:	MR408 - C	OMMUNIC	CATION SYS	STEM UPGR	ADE 2/	
INSTALLATION INFORMATIO	ON:																								
METHOD OF IMPLEMENTAT	ION:					AIT			-																
ADMINISTRATIVE LEADTIME	≣:					3		Months	-			PRODUCT	ΓΙΟΝ LEAD	TIME:			6		Months						
CONTRACT DATES:			FY 2005		N/A			-	FY 2006	<u> </u>	N	I/A		-		FY 2007		N/A				FY 2008		N/A	
DELIVERY DATE:			FY 2005	N	/A			-	FY 2006	i	N	I/A		-		FY 2007		N/A		•		FY 2008		N/A	
												(\$ in Million	ns)												
Cost:			PRIOR	YEARS	FY:	2005	FY	2006	FY	2007		2008		2009	FY	2010	FY	2011	TO COM	MPLETE	TO COI	MPLETE	тот	AL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT			45	10.237	4	0.538																	49	10.775	
FY 2005 EQUIPMENT																									
FY 2006 EQUIPMENT																									
FY 2007 EQUIPMENT																									
FY 2008 EQUIPMENT																									
FY 2009 EQUIPMENT																									
FY 2010 EQUIPMENT																									
FY 2011 EQUIPMENT																									
TO COMPLETE EQUIPMENT																									
TO COMPLETE																									
	Installation PRIOR YEARS	Schedule		2005				2006				2007				2008				2009			FY 2		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In -	45	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	45	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011			TC 0-	MDI 577						1												
		FY 2			-		MPLETE				_	1													
	1	2	3	4	1	2	3	4		mplete		otal	1												
In -	0	0	0	0						0		19	-												
Out	0	0	0	0	<u> </u>	<u> </u>	l	l		0		19	l												

Exhibit P-3a																						
MODELS OF SYSTEMS AFFI	ECTED:	AN/FAC-6	(V) 1/4 FOI	S			-	TYPE MOI	DIFICATIO	N:							MODIFICA	TION TITL	E :	MR430 - FI	BER OPTIC INTERSITE UPGRAD	<u>E</u>
Corps Air Station (NAS/MC/ lightning and other sources	AS) facilities of high pow ventories of	s worldwide ver electro-n f repair part	. This FOIS nagnetic int s for these	S equipmer terference (systems ar	nt has subst EMI) and ra e being rapi	antially incre adio frequen idly exhaust	eased the o cy interfere ed. This pr	perational a nce (RFI). Togram prov	availability (The original rides for futi	Ao) of the a equipment ure logistics	pplicable P manufactur support an	AR and AT er (OEM-FI d continued	C voice con IBERCOM) I capability	mmunication of this AN/F	systems b AC-6(V)1/4	y eliminatin 4 FOIS equ	g equipmer pment has	it damage a filed for bar	and failures akruptcy an	to these cri d has not pr	red for ATC voice communications a tical ATC systems that were previou oduced any replacement parts for the be installed at all NAS/MCAS facilities.	usly caused by hese systems over
DEVELOPMENT STATUS / M	IAJOR DEV	/ELOPMEN	T MILESTO	ONES: Non	n-Developm	ental Item (I	NDI)															
	PRIOR	YEARS	FY:	2005	FY.	2006	FY:	2007	FY:	2008	FY:	2009	FY	<u>2010</u>	FY:	2011	TO COM	MPLETE	<u>TO</u>	<u>TAL</u>		
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS INSTALLATION KITS																						
NONRECURRING																						
EQUIPMENT EQUIPMENT							6	0.954	7	1.134	7	1.155	7	1.176	5	0.855	3	0.525	35	5.799		
NONRECURRING ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
ILS						0.166		0.130		0.146		0.152		0.070		0.030		0.196		0.890		
PRODUCTION ENGINEERING						0.391		0.264		0.305		0.292		0.176		0.050		0.441		1.919		
QUALITY ASSURANCE																						
ACCEPTANCE TEST & EVALUATION																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST							6	0.558	7	0.665	7	0.679	7	0.693	5	0.505	3	0.309	35	3.409		
TOTAL PROCUREMENT						0.557		1.906		2.250		2.278		2.115		1.440	6	1.471		12.017		

MODELS OF SYSTEMS AFF	ECTED:	AN/FAC-6	6(V) 1/4 FO	IS			_										MODIFICA	TION TITL	E:	MR430 - F	BER OPT	IC INTERSI	TE UPGRA	DE	
INSTALLATION INFORMATION	ON:																								
METHOD OF IMPLEMENTA	ΓΙΟΝ:					AIT			-																
ADMINISTRATIVE LEADTIM	E:				-	3		Months	-			PRODUCT	ΓΙΟΝ LEAD	гіме:			4		Months	-					
CONTRACT DATES:			FY 2005	5	N/A			-	FY 2006		N	I/A				FY 2007		Jan-07		.		FY 2008		Jan-08	
DELIVERY DATE:			FY 2005	5 <u> </u>	N/A			_	FY 2006	i	N	I/A				FY 2007		Apr-07				FY 2008		Apr-08	
												(\$ in Million	ns)												
Cost:			PRIOR	R YEARS	FY	2005	FY	2006	FY	2007	FY	2008	FY 2	2009	FY:	2010	FY:	2011	TO COM	MPLETE	то со	MPLETE	то	TAL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT																									
FY 2006 EQUIPMENT																									
FY 2007 EQUIPMENT									6	0.558													6	0.558	l
FY 2008 EQUIPMENT											7	0.665											7	0.665	
FY 2009 EQUIPMENT													7	0.679									7	0.679	l
FY 2010 EQUIPMENT															7	0.693							7	0.693	l
FY 2011 EQUIPMENT																	5	0.505					5	0.505	l
TO COMPLETE EQUIPMENT	г																		3	0.309			3	0.309	l
TO COMPLETE																									i
	Installation	n Schedule								ı												ı			
	PRIOR YEARS			2005	l			2006				2007				2008				2009	l			2010	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<u>In</u>	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	3	4	0	0	3	4	0	0	3	4
Out	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	3	4	0	0	3	4	0	0	3	4
		E.	2011		Ī .	TO 00	MDIETE]												
			2011	1	1	1	MPLETE		T- 0		_	-4-1													
	1	2	3	4	1	2	3	4		mplete		otal													
In O	0	0	3	2						3		35													
Out	0	0	3	2	I .	1	1	l	l	3	;	35	I												

Exhibit P-3a																					
MODELS OF SYSTEMS AFFE	CTED:	AIR STATI	ON				-	TYPE MOI	DIFICATION	:							MODIFICA	TION TITLE	i:	MR440 - UHF	F/VHF TRANSCEIVER REPLACE
DESCRIPTION / JUSTIFICA (NDIs) developed by Genera														cy communic	cations. The	e program	will procure	Non-Devel	opmental l	Items	
DEVELOPMENT STATUS /	MAJOR D	EVELOPME	ENT MILES	STONES: N	on-Develop	omental Item	(NDI)														
	PRIOR	YEARS	<u>FY</u>	<u> 2005</u>	<u>FY</u>	2006	<u>FY 2</u>	<u> 2007</u>	<u>FY:</u>	<u>2008</u>	<u>FY</u>	<u> 2009</u>	<u>FY</u>	<u> 2010</u>	FY 2	<u>2011</u>	TO CO	M <u>PLETE</u>	<u>TC</u>	<u>DTAL</u>	
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS INSTALLATION KITS NONRECURRING																					
EQUIPMENT EQUIPMENT NONRECURRING							20	0.306	20	0.312	2 20	0.318	30	0.486	40	0.660	200	3.360	330	5.442	
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT						+															
ILS PRODUCTION ENGINEERING								0.020		0.020		0.020		0.020		0.020		0.080		0.180	
QUALITY ASSURANCE								0.000		0.000		0.000		0.000		0.000		0.200		0.430	
ACCEPTANCE TEST & EVALUATION																					
OTHER INTERIM CONTRACTOR																					
SUPPORT																				$\downarrow \downarrow \downarrow$	
INSTALL COST							20	0.020	20	0.021	20	0.021	30	0.032	40	0.044	200	0.224	330	0 0.362	
TOTAL PROCUREMENT								0.396		0.403	3	0.409		0.588		0.774		3.864		6.434	

MODELS OF SYSTEMS AFFE	CTED:	AIR STATI	ON				_										MODIFICA	TION TITLE	:	MR440 - U	HF/VHF TR	ANSCEIVE	R REPLACE	MENT	
INSTALLATION INFORMATIO	N:																								
METHOD OF IMPLEMENTATION	ON:					AIT																			
ADMINISTRATIVE LEADTIME:						2		Months	:			PRODUCT	ION LEADT	IME:		<u> </u>	5		Months						
CONTRACT DATES:			FY 2005		N/A				FY 2006		N	//A				FY 2007		N/A				FY 2008		N/A	
DELIVERY DATE:			FY 2005		N/A				FY 2006		N	/A				FY 2007		N/A				FY 2008		N/A	
							1					(\$ in Million													
Cost:				YEARS		2005		2006	FY 2	2007		2008	FY 2			2010	FY 2		TO COM			/PLETE	TOT		
PRIOR YEARS EQUIPMENT			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
FY 2005 EQUIPMENT																									
FY 2006 EQUIPMENT																									
FY 2007 EQUIPMENT									20	0.020													20	0.020	
FY 2008 EQUIPMENT											20	0.021											20	0.021	
FY 2009 EQUIPMENT													20	0.021									20	0.021	
FY 2010 EQUIPMENT															30	0.032							30	0.032	
FY 2011 EQUIPMENT																	40	0.044					40	0.044	
TO COMPLETE EQUIPMENT																			200	0.224			200	0.224	
TO COMPLETE																									
	Installation	Schedule																							
	PRIOR		FY	2005	T		FY:	2006		1	FY	2007			FY 2	2008			FY 2	2009			FY 2	010	
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	20	0	0	0	30	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	10	10	0	0	10	10	0	0	10	10	0	0	20	10
													Ì												
	ļ	FY:	2011	1		TO CO	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	40	0	0					20	00	3	30													
Out	0	0	20	20					20	00	3	30													

Exhibit P-3a																						
MODELS OF SYSTEMS AFF	ECTED:	AIR STAT	ION				_	TYPE MO	DIFICATIO	N:						-	MODIFICA	TION TITL	E:	MR445 - E	MERGENCY COMMUN	ICATION SYSTI
DESCRIPTION / JUSTIFICA	ATION:																					
DEVELOPMENT STATUS	MAJOR DI	EVELOPME	ENT MILES	STONES: N	lon-Develop	mental Iten	n (NDI)															
This Program modernizes Communications System								nent. Voice	Switches,	Recorders,	Reproduce	ers, Uninterr	uptable Po	wer Supplie	s, and Built	-In Test Eq	uipment will	be replaced	d with the s	same equipm	nent that was incorporate	ed in the Operati
	PRIOR	YEARS	FY	2005	FY	2006	FY:	2007	FY	2008	FY:	2009	FY	2010	FY	2011	TO COM	MPLETE	TO	DTAL .		
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	Ì	
RDT&E																						
PROCUREMENT																					I	
INSTALLATION KITS INSTALLATION KITS																						
NONRECURRING																					1	
EQUIPMENT EQUIPMENT					-		2	0.636	2	0.650	2	0.662	! 3	1.014	4	1.380	20	7.040	33	11.382	I	
NONRECURRING ENGINEERING CHANGE																					I	
ORDERS																					I	
DATA																					I	
TRAINING EQUIPMENT																					l	
SUPPORT EQUIPMENT																					1	
ILS								0.020		0.020		0.020		0.020		0.025		0.095		0.200	1	
PRODUCTION					1															1	l	
ENGINEERING		-			1			0.025		0.025		0.025		0.050		0.110		0.450		0.685	l	
QUALITY ASSURANCE ACCEPTANCE TEST &					1																1	
EVALUATION					1																l	
OTHER																					l	
INTERIM CONTRACTOR SUPPORT																					l	
INSTALL COST							2	0.062	2	0.064	2	0.066	3	0.102	4	0.140	20	0.720	33	3 1.154		
								l	l		l						l		l	l	İ	

MODELS OF SYSTEMS AFFE	ECTED:	AIR STATI	ON				_										MODIFICA	TION TITL	Ē:	MR445 - E	MERGENO	CY COMMU	NICATION	SYSTEM	
INSTALLATION INFORMATIO	DN:																								
METHOD OF IMPLEMENTAT	ION:					AIT			-																
ADMINISTRATIVE LEADTIME	i:					2		Months	-			PRODUCT	ΓΙΟΝ LEAD	TIME:			1		Months	-					
CONTRACT DATES:			FY 2005		N/A			-	FY 2006	s	N	I/A				FY 2007		N/A				FY 2008		N/A	
DELIVERY DATE:			FY 2005		N/A			=	FY 2006	i	N	I/A		•		FY 2007		N/A		•		FY 2008		N/A	
												(\$ in Million	ns)												
Cost:			PRIOR	YEARS	FY	2005	FY:	2006	FY	2007	FY	2008	FY:	2009	FY:	2010	FY:	2011	TO COM	MPLETE	то со	MPLETE	TO	ΓAL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT																									
FY 2006 EQUIPMENT																									
FY 2007 EQUIPMENT									2	0.062													2	0.062	
FY 2008 EQUIPMENT											2	0.064											2	0.064	
FY 2009 EQUIPMENT													2	0.066									2	0.066	
FY 2010 EQUIPMENT															3	0.102							3	0.102	
FY 2011 EQUIPMENT																	4	0.140					4	0.140	
TO COMPLETE EQUIPMENT																			20	0.720			20	0.720	
TO COMPLETE																									
	Installation	Schedule				<u> </u>				ı												ı			
	PRIOR YEARS		FY:	2005	1		FY:	2006	l		FY	2007			FY:	2008			FY 2	2009	l		FY 2	2010	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	1	0
Out	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	2	1
					1								1												
		FY 2	2011			TO CO	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	2	2	0					- 2	20		33													
Out	0	0	2	2					2	20	3	33													

		BUDGE	T ITEM JU	STIFICATION	ON SHEET						DATE:	
		P-40									February 2	2006
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM I	NOMENCL	ATURE			
Other Procurement, Navy/BA-2							284600, L	ANDING S'	YSTEMS			
Program Element for Code B Items:							Other Rela	ited Progra	m Element	is		
Not Applicable							NOT APPL	ICABLE				
	Prior	ID								То	Total	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Program	
Quantity												
Cost (\$M)	\$38.3	N/A	\$7.2	\$7.8	\$9.2	\$9.4	\$10.4	\$10.7	\$11.0	\$2.3	\$106.2	

DESCRIPTION:

The Chief of Naval Operations (CNO) tasked Naval Air Systems Command (NAVAIR) with the requirement to provide shore based Air Traffic Control (ATC) terminal facilities and equipment that is required in joint efforts to efficiently and safely monitor and direct military and commercial air traffic in national and international air space. Many of these systems are required to interface through automated means with Federal Aviation Administration (FAA). Additionally, NAVAIR has material support responsibility for Air Navigation Aid Systems, Mobile ATC Equipment, Special Instrumentation Systems, and Ancillary Equipment used for ATC&LS by the Navy and Marine Corps. This Landing Systems (LS) Y2X1 program, in conjunction with the other three programs (Air Station Support Equipment Y2MR, Fleet Area Control and Surveillance Facility (FACSFAC) Y2TT, and the National Airspace System Modernization Y2CB) which make up program element 0204696N, provide the four pillars by which NAVAIR supports and meets established requirements to modernize and ensure reliable, safe and effective operations of ATC&LS used at Navy and Marine Corps air stations and ATC facilities worldwide.

This Landing Systems (LS) budget provides funding to modernize and ensure the reliability and safety of Precision Approach Radars (PAR), Tactical Air Navigation (TACAN) systems, and other aircraft navigation aids used by the Navy and Marine Corps.

The Precision Approach Radar (PAR) Upgrade consists of the Modulator Board Upgrade ECP, the Antenna Upgrade ECP, the Configuration Upgrade ECP, the Turntable Upgrade ECP, the Fiber Optic Intersite System (FOIS) ECP, and the Angle Voltage Generator (AVG) Upgrade ECP. The Tactical Air Navigation (TACAN) Sustainment consists of the Antenna Upgrade ECP, the Shelter Upgrade ECP, and the Beacon Upgrade ECP.

Funding in FY06 includes supplemental funding for hurricane efforts.

Funding in FY07 will provide 6 PAR Antenna Upgrades, 6 PAR Configuration Upgrades, 4 PAR Turntable Upgrades, 3 PAR Fiber Optic Intersite System (FOIS) Upgrades, 8 PAR Angle Voltage Generator (AVG) Upgrades, 6 TACAN Antenna Upgrades, 2 TACAN Shelter Upgrades, and 1 TACAN Beacon Upgrade.

CLASSIFICATION: UNCLASSIFIED BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS DATE: February 2006 P-40a APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE OTHER PROCUREMENT, NAVY/ BA 2 -**Communications and Electronic Equipment** 284600, LANDING SYSTEMS ID Prior Total Procurement Items Code Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Program X1018 PRECISION APPROACH RADAR N/A 50 27 25 21 Quantity 81 20 18 242 3,948 3,493 3,487 3,208 4,265 Funding 3,401 3,310 25,112 X1019 TACAN N/A Quantity 26 36 38 34 168 22,250 Funding 880 896 1,072 3,628 5,237 5,517 4,520 500 4,592 2,278 1,826 Other Costs N/A 38,291 2,901 2,922 1,855 1,957 2,191 58,813

7,766

9,157

38,291

7,182

CLASSIFICATION:

10,402

10,682

10,976

9,393

UNCLASSIFIED

Total P-1 Funding

2,326

106,175

	WEAPONS SYSTEM COST ANALYSIS	Weapon S	ystem									DATE:	
	P5											Februa	ry 2006
APPROF	PRIATION/BUDGET ACTIVITY								ID Code	P-1 ITEM NON	MENCLATURE		
	OTHER PROCUREMENT, NAV	∧ BA 2								284600, LAND	ING SYSTEM	s	
			Dollars in Thous	ands									
			Prior Years		FY 2005			FY 2006			FY 2007		
													İ
Cost Code	Element of Cost	ID Code	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	İ
X1018	PRECISION APPROACH RADAR	N/A		81	42	3,401	50	79	3,948	27	129	3,493	1
X1019	TACAN	N/A		8	110	880	8	112	896	9	119	1,072	1
X1800	ILS	N/A	2,209			642			557			581	1
X1830	PRODUCTION ENGINEERING SUPPORT	N/A	3,169			1,487		•	1,163			2,537	1
X1840	QUALITY ASSURANCE	N/A	320			129			121			70	1
X1860	ACCEPTANCE, TEST & EVALUATION	N/A							13				1
X1900	NON-FMP INSTALLATION	N/A	15,244			643			1,068			1,404	1
	**VARIOUS	N/A	17,349										1
			38,291			7,182			7,766			9,157	l

^{*} FY06 Production Engineering funding includes \$160K supplemental funding for hurricane expenses, issue number 62430. ** The amount identified against this cost element reflects total prior year funding associated with cost elements no longer funded.

BUDGET PROCUREMENT HISTORY AND P	LANNING	EXHIBIT (I	P-5A)			Weapon System		A. DAT	E	
								February	2006	
 B. APPROPRIATION/BUDGET ACTIVITY 					C. P-1 IT	EM NOMENCLATURE			SUBHEAD	5
OTHER PROCUREMENT, NAVY /	BA 2					LANDING SYSTEMS (LS)			Y2	2X1
			R	₹FP	Contract			Date of	Specs	Date
		Unit Cost	Iss	sue	Method &		Award	First	Available	Revisions
Cost Element/FiscalYear	Qty	(000)	Location of PCO Date Discourage Dincourage Discourage Discourage Discourage Discourage Discourage D	ate	Type	Contractor and Location	Date	Delivery	Now	Available
See remarks										
										1
										1
										1
										1
										1
			•							-
REMARKS:										
ECPs will be asembled using components pro	cured via	various Pur	chase Orders.							

CLASSIFICA	TION: U	NCLAS	SSIFIE	D																					
Exhibit P-3a																									
MODELS OF SYSTEMS AFFE	ECTED:	AN/FPN-63	3 PAR					TYPE MOI	DIFICATION	l:	MODERNI	ZATION					MODIFICA	TION TITL	E:	X1018 - PF	RECISION APPR	ROACH RADA	R AVG UPGF	RADE	_
DESCRIPTION / JUSTIFICA	TION:																								
This ECP will replace two ol AVG components and asse Between Failure (MTBF) pro Landing System operations	mblies will b	oe upgrade ng caused b	d or replace by high elec	ed using state	ate-of-the-ar e rates of th	t commercia ne obsolete	ally available AVG assem	e items to r blies in the	naintain reli	ability, avai	lability and	maintainab	ility of the F	PAR. This E	CP will imp	rove the reli	iability, ava	ilability and	supportabi	lity of AN/F	PN-63 PAR by	correcting Mea	in Time		
DEVELOPMENT STATUS/MA	JOR DEVE	LOPMENT	MILESTON	NES:	Non-Devel	opmental Ite	em																		
	PRIOR	YEARS	FY:	2005	FY 2	2006	FY 2	007	FY 2	800	FY 2	2009	FY 2	2010	FY 2	2011	TO COM	<u>MPLETE</u>	<u>TO1</u>	ΓAL					
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	-				
RDT&E																									
PROCUREMENT																									
INSTALLATION KITS INSTALLATION KITS NONRECURRING]				
EQUIPMENT																									
ECP- Angle Voltage Generator Upgrade					7	1.379	8	1.104	8	1.145	8	1.150	8	1.192	4	0.502			43	6.472	2				
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																					_				
SUPPORT EQUIPMENT																									
ILS				0.046		0.047		0.276		0.288		0.025		0.025						0.707	,				
PRODUCTION ENGINEERING				0.400		0.042														0.442	į				
QUALITY ASSURANCE						0.015		0.015		0.015		0.015		0.015						0.075	i				
ACCEPTANCE TEST & EVALUATION																									

0.382

1.572

0.385

1.617

0.480

0.982

1.521

8.715

OTHER
INTERIM CONTRACTOR
SUPPORT

TOTAL PROCUREMENT

INSTALL COST

1.483

0.446

0.375

1.770

0.379

1.827

MODELS OF SYSTEMS AFF	ECTED:	AN/FPN-63	3 PAR				-										MODIFICA	ATION TITL	E:	X1018 - PI	RECISION	APPROACI	H RADAR A	VG UPGRA	DE
INSTALLATION INFORMATION	ON:																								
METHOD OF IMPLEMENTAT	TION:					AIT			-																
ADMINISTRATIVE LEADTIM	E:					2		Months	-			PRODUCT	TION LEAD	TIME:			7		Months						
CONTRACT DATES:			FY 2005	5 <u> </u>	I/A			-	FY 2006		N	/A		:		FY 2007		N/A		-		FY 2008			
DELIVERY DATE:			FY 2005	5 <u> </u>	I/A			-	FY 2006		N	/A		•		FY 2007		N/A				FY 2008			
												(\$ in Million	ne)												
Cost:				YEARS		2005		2006		2007		2008		2009		2010		2011		MPLETE		MPLETE	TO		
PRIOR YEARS EQUIPMENT			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
FY 2005 EQUIPMENT																									
FY 2006 EQUIPMENT									7	0.328													7	0.328	
FY 2007 EQUIPMENT									1	0.047	7	0.329											8	0.376	
FY 2008 EQUIPMENT											1	0.050	7	0.334									8	0.384	
FY 2009 EQUIPMENT													1	0.048	7	0.336							8	0.384	
FY 2010 EQUIPMENT															1	0.049	7	0.284					8	0.333	
FY 2011 EQUIPMENT																	4	0.196					4	0.196	
TO COMPLETE EQUIPMENT	Г																								
TO COMPLETE																									
	Installation	s Schedule																							
	PRIOR YEARS		FY	2005	1		FY	2006	ı		FY:	2007	ı		FY:	2008	1		FY:	2009			FY 2	2010	
	TEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	0	0	0	0	7	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0
Out	0	0	0	0	0	0	0	0	0	3	4	0	1	2	2	2	2	2	2	2	2	2	2	2	2
													1												
		FY 2	2011			то со	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	4	0	0	0	0	0	0			4	13													
Out	3	3	3	2	0	0	0	0			4	13													

CLASSIFICA	ATION: U	NCLAS	SSIFIED)																					
Exhibit P-3a																									_
MODELS OF SYSTEMS AFF	ECTED:	AN/FPN-63	B PAR					TYPE MOD	DIFICATION	۱:	MODERNI	ZATION				-	MODIFICA	TION TITL	E: .	X1018 - PF	RECISION A	PPROACH	RADAR FO	IS	
DESCRIPTION / JUSTIFICA	TION:																								
This ECP will improve the r FOIS equipment with existin (RFI). This ECP is required	ng AN/FPN-	63 PAR sys	stems has p	rovided sul	bstantially in	creased PA	R operation	nal availabi	lity (Ao) by	eliminating	equipment	damage an	d failures o	aused by lic	htning and	other source	es of high	power elect							
DEVELOPMENT STATUS/MA					Non-Develo			007	EV.	2000	EV.	2000	EV	2040	EV	2044	TO COM	ADI ETE	TO:	FA1					
Fire and Discovery	PRIOR		FY 2		FY 2		FY 2			2008		2009		2010		2011		MPLETE	<u>TO</u>						
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$]				
RDT&E																					1				
PROCUREMENT																					1				
INSTALLATION KITS INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
ECP- Fiber Optic System			2	0.169	3	0.255	3	0.255	3	0.265	3	0.275							14	1.219	,				
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
ILS				0.016		0.017		0.018		0.019		0.019		0.020						0.109	,				
PRODUCTION ENGINEERING				0.031		0.032		0.033		0.034		0.034			,					0.164	ı				
QUALITY ASSURANCE				0.006		0.006		0.006		0.006		0.006								0.030	,				
ACCEPTANCE TEST & EVALUATION																					1				

0.159

0.493

0.162

0.182

0.730

2.252

0.100

0.410

0.222

0.153

0.465

0.156

0.480

OTHER
INTERIM CONTRACTOR
SUPPORT

TOTAL PROCUREMENT

INSTALL COST

MODELS OF SYSTEMS AFFE	ECTED:	AN/FPN-63	3 PAR				-										MODIFICA	TION TITL	E:	X1018 - PI	RECISION	APPROACE	I RADAR F	OIS	
INSTALLATION INFORMATIO	ON:																								
METHOD OF IMPLEMENTAT	ION:					AIT																			
ADMINISTRATIVE LEADTIME	≣:					2		Months				PRODUCT	ION LEAD	ГІМЕ:			3		Months						
CONTRACT DATES:			FY 2005	<u> </u>	/A			_	FY 2006		N	/A				FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	<u> </u>	/A			_	FY 2006		N	/A				FY 2007		N/A				FY 2008			
												(\$ in Million													İ
Cost:			PRIOR	YEARS	FY	2005	FY	2006	FY:	2007	FY 2	2008	FY:	2009	FY 2	2010	FY 2	2011	TO COM	//PLETE	TO COI	MPLETE	TO	ΓAL	1
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	I
PRIOR YEARS EQUIPMENT																									İ
FY 2005 EQUIPMENT							2	0.100															2	0.100	İ
FY 2006 EQUIPMENT									3	0.153													3	0.153	İ
FY 2007 EQUIPMENT											3	0.156											3	0.156	İ
FY 2008 EQUIPMENT													3	0.159									3	0.159	İ
FY 2009 EQUIPMENT															3	0.162							3	0.162	İ
FY 2010 EQUIPMENT																									İ
FY 2011 EQUIPMENT																									İ
TO COMPLETE EQUIPMENT																									İ
TO COMPLETE																									j
	Installation	Schedule				ī																			
	PRIOR YEARS		FY:	2005	ı		FY	2006			FY 2	2007			FY 2	2008			FY 2	2009	1		FY 2	2010	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0	3	0	0	0	3	0	0	0	0	0
Out	0	0	0	0	0	1	1	0	0	0	1	2	0	0	1	2	0	0	1	2	0	0	1	2	0
													1												
		FY 2	2011			TO CO	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	То	tal													
In	0	0	0	0	0	0	0	0			1	4													

CLASSIFICA	ATION: U	NCLAS	SSIFIE)																					
Exhibit P-3a																									
MODELS OF SYSTEMS AFFE	ECTED:	AN/FPN-63	3 PAR				-	TYPE MOD	DIFICATION	l:	MODERNI	ZATION					MODIFICA	TION TITL	≣: .	X1018 - PF	RECISION APPR	OACH RADAR	TURNTABLI	E UPGRAL	<u>D</u> E
DESCRIPTION / JUSTIFICA	TION:																								
Due to exposure to the envi turn-table assemblies were and mechanical failure rate Marine Corps Air Stations (i	fielded in the s of the PAR MCAS) facili	e early 196 turn-table: ities worldw	Os with the s and therel	AN/FPN-52 fore improve	PAR and he the overal	nave been i	n-service for al Availabilit	r 40 years.	This ECP v	vill improve	the reliabili	ity, availabil	ity and supp	ortability of	AN/FPN-6	3 PAR by c	orrecting M	lean Time E	etween Fai	lure (MTBF	r) problems being	caused by hig	h electrical		
	PRIOR '	YEARS	FY 2	2005	FY 2	<u>2006</u>	FY 2	007	FY 2	2008	FY 2	2009	FY 2	<u>2010</u>	FY 2	<u>2011</u>	TO COM	MPLETE	<u>TO</u>	ΓAL					
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$					
RDT&E																									
PROCUREMENT																									
INSTALLATION KITS INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
ECP-Turntable Upgrade ENGINEERING CHANGE ORDERS			4	1.172	4	1.187	4	1.155	4	1.155	4	1.235	4	1.235	9	2.669			33	9.808					
DATA																					1				
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
ILS				0.046		0.047		0.130		0.130		0.025		0.025		0.015				0.418	3				
PRODUCTION ENGINEERING				0.180		0.094														0.274					
QUALITY ASSURANCE				0.012		0.012		0.007		0.007		0.007		0.007		0.007				0.059					
ACCEPTANCE TEST & EVALUATION																									

0.233

1.500

0.233

1.500

0.485

3.176

0.488

0.488

2.286

12.845

0.184

1.524

0.217

1.509

0.217

1.509

0.229

1.639

OTHER
INTERIM CONTRACTOR
SUPPORT

TOTAL PROCUREMENT

INSTALL COST

MODELS OF SYSTEMS AFF	FECTED:	AN/FPN-6	3 PAR				-										MODIFICA	ATION TITL	E:	X1018 - PF	RECISION	APPROACE	H RADAR TI	URNTABLE	<u>UPGRAD</u> E
INSTALLATION INFORMATION	ON:																								
METHOD OF IMPLEMENTAT	TION:					AIT																			
ADMINISTRATIVE LEADTIM	E:					11		Months				PRODUCT	TION LEAD	TIME:		2	2		Months						
CONTRACT DATES:			FY 2005	<u>, N</u>	/A			-	FY 2006		N	I/A				FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	. N	/A			<u>-</u>	FY 2006		N	I/A				FY 2007		N/A				FY 2008			
												(\$ in Million	ns)												
Cost:			PRIOR	YEARS	FY:	2005	FY	2006	FY:	2007	FY	2008	FY	2009	FY 2	2010	FY:	2011	TO CO	MPLETE	то со	MPLETE	TOT	ΓAL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT					4	0.229																	4	0.229	
FY 2006 EQUIPMENT							4	0.184															4	0.184	
FY 2007 EQUIPMENT									4	0.217													4	0.217	
FY 2008 EQUIPMENT											4	0.217											4	0.217	
FY 2009 EQUIPMENT													4	0.233									4	0.233	
FY 2010 EQUIPMENT															4	0.233							4	0.233	
FY 2011 EQUIPMENT																	4	0.485	5	0.488			9	0.973	
TO COMPLETE EQUIPMENT	Т																								
TO COMPLETE																									
	Installation	schedule				ı																ı			
	PRIOR YEARS	<u> </u>		2005			FY:	2006		 		2007				2008				2009		 	FY 2		
l-		1	2	3	4	1		3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Out	0	0	0	1	3	0	1	0	2	0	1	0	2	0	1	0	2	0	1	0	2	0	1	0	2
Out	U	U	U		3	U	'	1	2	U		<u>, , , , , , , , , , , , , , , , , , , </u>		U	- 1	_ '	2	U	<u> </u>	ı		U	1	ı	2
		F1 ()	2044			TO 000	ADI ETE						1												
		2	2011	4			MPLETE 3	,	T . C		_	-4-1													
	1		3		. 1	2		4	To Co			otal	1												
In	0	4	3	2	0	0	0	0		0		33													
Out	0	1	1	2	0	0	0	0		5	3	33													

CLASSIFICA	ATION: L	JNCLA	SSIFIE)																			
Exhibit P-3a																							
MODELS OF SYSTEMS AFFE	ECTED:	AN/FPN-6	3 PAR					TYPE MOD	DIFICATION	l:	MODERNI	IZATION				-	MODIFICA	TION TITL	E: .	X1018 - PF	RECISION APPROACH	RADAR CONFIG	UPGRADE
DESCRIPTION / JUSTIFICA	TION:																						
This ECP will address seve state-of-the-art commercial rates of obsolete power sup (NAS) and Marine Corps Ai	ly available oplies, circu ir Stations (items to ma it cards and MCAS) faci	aintain reliab I other asser lities worldw	oility, availa mblies in th ide.	ability and m ie AN/FPN-6	aintainabilit	y of the PA I therefore in	R. This EC	P will impro	ve the relial	bility, availa	ability and s	upportabilit	y of AN/FPN	N-63 PAR b	y correcting	Mean Tim	e Between	Failure (MT	BF) proble	ms being caused by high	n electronic failure	
	PRIOR	YEARS	FY 2	2005	FY 2	2006	FY 2	2007	FY 2	2008	<u>FY</u> :	2009	FY:	<u>2010</u>	FY:	<u> 2011</u>	TO COM	MPLETE	<u>TO</u>	ΓAL			
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	•		
RDT&E																					İ		
PROCUREMENT																							
INSTALLATION KITS INSTALLATION KITS NONRECURRING																							
EQUIPMENT																							
ECP-Config Upgrade ENGINEERING CHANGE ORDERS			9	0.781	4	0.354	6	0.616	5	0.617	5	0.650	6	0.781	8	1.094			43	4.893			
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																					1		
ILS PRODUCTION ENGINEERING				0.148		0.185 0.513		0.015		0.123		0.015		0.015		0.015				0.516			
QUALITY ASSURANCE				0.047		0.015														0.062			
ACCEPTANCE TEST & EVALUATION																					1		

0.214

0.879

0.224

1.020

0.270

1.379

0.376

0.376

2.114

8.390

0.170

1.438

0.390

1.457

0.238

0.869

0.232

0.972

OTHER
INTERIM CONTRACTOR
SUPPORT

TOTAL PROCUREMENT

INSTALL COST

^{*} FY06 Production Engineering funding includes \$160K supplemental funding for hurricane expenses, issue number 62430.

MODELS OF SYSTEMS AFF	ECTED:	AN/FPN-63	3 PAR				_										MODIFICA	TION TITL	E:	X1018 - PF	RECISION	APPROACH	H RADAR C	ONFIG UPG	RADE
INSTALLATION INFORMATION	ON:																								
METHOD OF IMPLEMENTAT	TION:					AIT																			
ADMINISTRATIVE LEADTIMI	E:					1		Months				PRODUCT	TION LEAD	TIME:			5		Months						
CONTRACT DATES:			FY 2005	N	/A			_	FY 2006		N	I/A		-		FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005		/A			_	FY 2006		N	I/A		-		FY 2007		N/A		•		FY 2008			
												(\$ in Millio	ns)												
Cost:			PRIOR	YEARS	FY	2005	FY	2006	FY	2007	FY	2008	FY	2009	FY 2	2010	FY	2011	TO COM	MPLETE	TO CO	MPLETE	TO	ΓAL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT					4	0.170	5	0.217															9	0.387	
FY 2006 EQUIPMENT							4	0.173															4	0.173	
FY 2007 EQUIPMENT									6	0.238													6	0.238	
FY 2008 EQUIPMENT											5	0.232											5	0.213	
FY 2009 EQUIPMENT													5	0.214									6	0.214	
FY 2010 EQUIPMENT															6	0.224							5	0.224	
FY 2011 EQUIPMENT																	6	0.270					6	0.270	
TO COMPLETE EQUIPMENT	-																		2	0.376			2	0.376	
TO COMPLETE																									
	Installation	Schedule																							
	PRIOR		FY:	2005			FY	2006			FY	2007			FY 2	2008			FY 2	2009			FY 2	2010	
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	5	4	0	0	4	0	0	6	0	0	0	5	0	0	0	5	0	0	0	6	0	0
Out	0	0	0	0	4	2	3	2	2	0	2	2	2	0	1	2	2	0	0	2	3	0	2	2	2
													_												
		FY 2	2011			то со	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	4	4	0	0	0	0	0			4	13													
Out	0	2	2	2	0	0	0	0		2		43													

CLASSIFICA	TION: U	NCLAS	SSIFIE	D																				
Exhibit P-3a																								
MODELS OF SYSTEMS AFFE	CTED:	AN/FPN-63	3 PAR				-	TYPE MOI	DIFICATION	l:	MODERNI	IZATION				-	MODIFICA	TION TITLE	≣: .	X1018 - PI	RECISION APPROAC	H RADAR ANTE	nna upgrai	DE_
DESCRIPTION / JUSTIFICA	TION:																							
This ECP will improve the re and therefore improve the or	liability, ava verall Opera	ilability and tional Avail	l supportabi ability (Ao)	ility of existi of the AN/F	ing Antenna FPN-63 PAF	s via the ins	stallation of some	state-of-the modernize	e-art bearing the AN/FP	gs and pred 'N -63 PAR	cision matin to ensure	g brackets reliable, saf	and surface ie and effec	s to correct tive Landing	Mean Time System of	e Between perations at	Failure (MTI : Naval Air S	BF) problem Station (NAS	ns being car 6) and Marir	used by hig ne Corps A	gh mechanical failure ra Air Stations (MCAS) fac	ates of the antenr ilities worldwide.	nas	
DEVELOPMENT STATUS/MA	JOR DEVEI			IES:	Non-Develo		em <u>FY 2</u>	<u>007</u>	<u>FY 2</u>	2008	FY:	2009	FY:	<u> 2010</u>	FY:	<u> 2011</u>	<u>TO COM</u>	<u>MPLETE</u>	<u>TO</u> 1	<u>TAL</u>				
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	_			
RDT&E																								
PROCUREMENT																					1			
INSTALLATION KITS INSTALLATION KITS NONRECURRING																								
EQUIPMENT																								
ECP-Antenna Upgrade ENGINEERING CHANGE ORDERS			6	0.379	6	0.383	6	0.363	5	0.305									23	1.430	0			
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																								
ILS				0.192		0.052		0.007		0.003										0.254	4			
PRODUCTION ENGINEERING				0.200		0.050		0.060		0.030										0.340	0			
QUALITY ASSURANCE				0.027		0.022		0.012		0.008										0.069	9			
ACCEPTANCE TEST & EVALUATION]			

0.593

2.686

0.120

0.627

0.189

0.631

0.170

0.516

0.114

0.912

OTHER
INTERIM CONTRACTOR
SUPPORT

TOTAL PROCUREMENT

INSTALL COST

MODELS OF SYSTEMS AFFE	ECTED:	AN/FPN-63	B PAR				<u>.</u>										MODIFICA	ATION TITL	E:	X1018 - PF	RECISION	APPROACI	H RADAR A	NTENNA UF	PGRADE_
INSTALLATION INFORMATIC	ON:																								
METHOD OF IMPLEMENTAT	ION:					AIT																			
ADMINISTRATIVE LEADTIME	≣:					1		Months				PRODUCT	TION LEAD	TIME:		:	2		Months						
CONTRACT DATES:			FY 2005	N	/A			<u>.</u>	FY 2006		N	I/A		<u>.</u>		FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	N	/A				FY 2006		N	I/A				FY 2007		N/A				FY 2008			
												(\$ in Millio													
Cost:				YEARS		2005		2006		2007		2008		2009		2010		2011		MPLETE		MPLETE	TO		
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT					6	0.114																	6	0.114	
FY 2006 EQUIPMENT							6	0.120															6	0.120	
FY 2007 EQUIPMENT									6	0.189													6	0.189	
FY 2008 EQUIPMENT											5	0.170											5	0.170	
FY 2009 EQUIPMENT																									
FY 2010 EQUIPMENT																									
FY 2011 EQUIPMENT																									
TO COMPLETE EQUIPMENT																									
TO COMPLETE																									1
	Installation	Schedule																Ī				•			
			FY:	2005	ı		FY	2006			FY	2007	ı		FY	2008			FY 2	2009	1		FY:	2010	
	PRIOR YEARS					I .		3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	PRIOR YEARS	1	2	3	4	1	2	J								I								1	
In		1 0	2	2	2	0	2	2	2	0	2	2	2	0	2	2	1	0	0	0	0	0	0	0	0
In Out	YEARS					0 0			2	0	2	2	2	0	2	2	1	0	0	0	0	0	0	0	
	YEARS 0	0	2	2	2		2	2											Ť						0
	YEARS 0	0	2	2	2	0	2	2											Ť						0
	YEARS 0	0	2	2	2	0	2	2	2		2								Ť						0
	YEARS 0 0	0 0 FY 2	2 2	2 2	2	TO COM	2 2 MPLETE	2	2	0	2 To	2							Ť						0

CLASSIFICA	ATION: U	NCLAS	SSIFIED)																					
Exhibit P-3a																									
MODELS OF SYSTEMS AFFE	ECTED:	AN/FPN-63	B PAR					TYPE MOI	DIFICATION	N:	MODERNI	IZATION				-	MODIFICA	TION TITL	E: .	X1018 - PF	RECISION AF	PROACH R	ADAR MODU	JLATOR	
DESCRIPTION / JUSTIFICA	TION:																								
This ECP will improve the r ECP will correct Mean Time and help ensure reliable, sa funding can be obtained for	e Between F afe and effect	ailure (MTE	3F) problem:	s being car	used by hig	h failure rate	es of the S0	CR modulat	or driver cir	cuit cards.	This ECP v	vill therefore	e improve th	e overall O	perational A	Availability (Ao) of the A	N/FPN-63	PAR. This	ECP is requ	uired to mode	rnize the AN	I/FPN -63 PA	R	
DEVELOPMENT STATUS/MA						opmental Ite																			
		YEARS	FY 2	005		2006		2007		2008		2009		2010		<u>2011</u>	TO COM	<u>MPLETE</u>	<u>TO1</u>	<u>ral</u>					
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	1				
RDT&E																									
PROCUREMENT																									
INSTALLATION KITS INSTALLATION KITS NONRECURRING																									
EQUIPMENT																									
ECP-Turntable Upgrade ENGINEERING CHANGE ORDERS			60	0.900	26	0.390													86	1.290					
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
ILS PRODUCTION				0.052		0.053														0.105					
ENGINEERING				0.063		0.079														0.142					
QUALITY ASSURANCE ACCEPTANCE TEST & EVALUATION				0.014		0.014														0.028					

0.180

1.745

0.050

0.586

0.130

1.159

OTHER
INTERIM CONTRACTOR
SUPPORT

TOTAL PROCUREMENT

INSTALL COST

MODELS OF SYSTEMS AFF	ECTED:	AN/FPN-63	3 PAR				-										MODIFICA	ATION TITL	.E:	X1018 - P	RECISION	APPROAC	H RADAR M	IODULATO	R
INSTALLATION INFORMATIO	ON:																								
METHOD OF IMPLEMENTAT	ΓΙΟΝ:					AIT			·																
ADMINISTRATIVE LEADTIMI	E:					1		Months				PRODUCT	TION LEAD	TIME:		:	2		Months	<u>.</u>					
CONTRACT DATES:			FY 2005	<u> </u>	/A				FY 2006		N	I/A		-		FY 2007		N/A		-		FY 2008			
DELIVERY DATE:			FY 2005	<u> </u>	/A			-	FY 2006		N	I/A		-		FY 2007		N/A		_		FY 2008			
												(A) :- NATIO													
												(\$ in Millio													1
Cost:				YEARS		2005		2006		2007		2008		2009		2010		2011		MPLETE		MPLETE	TO		
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT					60	0.130																	60	0.130	d
FY 2006 EQUIPMENT							26	0.050															26	0.050	d
FY 2007 EQUIPMENT																									d
FY 2008 EQUIPMENT																									
FY 2009 EQUIPMENT																									
FY 2010 EQUIPMENT FY 2011 EQUIPMENT																									
TO COMPLETE EQUIPMENT	r																								
TO COMPLETE																									
	Installation	Schedule																							
	PRIOR YEARS		FY:	2005	1	<u> </u>	FY:	2006	1		FY	2007	1	<u> </u>	FY:	2008	1		FY:	2009	ı		FY 2	2010	
	. 2/11/0	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	60	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	30	30	0	14	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	_																								
		FY:	2011			TO CO	MPLETE	1																	
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	0	0	0	0	0	0	0			8	36													
Out	0	0	0	0	0	0	0	0				36													

CLASSIFICATION: UNCLASSIFIED Exhibit P-3a MODELS OF SYSTEMS AFFECTED: AN/FRN-42, AN/URN-25, OE-258A/URN TYPE MODIFICATION: MODERNIZATION MODIFICATION TITLE: X1019 - TACAN SHELTER UPGRADE DESCRIPTION / JUSTIFICATION: Shore Station TACAN system upgrade ECPs which will replace 15 severly deteriorated shelters. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Developmental Item PRIOR YEARS FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TO COMPLETE TOTAL Financial Plan (in Millions) QTY QTY QTY QTY QTY QTY QTY QTY QTY RDT&E PROCUREMENT INSTALLATION KITS
INSTALLATION KITS
NONRECURRING EQUIPMENT ECP-BEACON ECP-SHELTER UPGRADE 0.550 0.560 0.570 0.580 0.59 0.600 0.920 4.370 DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT 0.030 0.031 0.032 0.033 0.034 0.035 0.073 0.268 ENGINEERING 0.050 0.051 0.052 0.053 0.054 0.055 0.113 0.428 QUALITY ASSURANCE 0.015 0.016 0.017 0.018 0.019 0.019 0.041 0.145 ACCEPTANCE TEST & EVALUATION

0.122

0.819

0.124

0.833

0.126

1.273

0.192

0.192

0.918

6.129

0.116

0.774

0.645

0.118

0.789

0.120

0.804

INTERIM CONTRACTOR SUPPORT INSTALL COST

TOTAL PROCUREMENT

MODELS OF SYSTEMS AFF	ECTED:	AN/FRN-4	2, AN/URN	I-25, OE-25	8A/URN		_										MODIFICA	TION TITL	E:	X1019 - TA	ACAN SHE	LTER UPG	RADE		
INSTALLATION INFORMATION	ON:																								
METHOD OF IMPLEMENTAT	ΓΙΟΝ:					AIT																			
ADMINISTRATIVE LEADTIM	E:					6		Months	:			PRODUCT	ΓΙΟΝ LEAD	TIME:			3		Months						
CONTRACT DATES:			FY 2005	5 <u> </u>	I/A			-	FY 2006		N	/A		-		FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	5 <u> </u>	I/A			_	FY 2006		N	/A		-		FY 2007		N/A				FY 2008			
							1					(\$ in Million	ns)												Ī
Cost:			PRIOR	R YEARS	FY	2005	FY	2006	FY:	2007	FY:	2008	FY	2009	FY:	2010	FY:	2011	TO COM	MPLETE	TO CO	MPLETE	TO	ΓAL	1
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT							2	0.116															2	0.116	i
FY 2006 EQUIPMENT									2	0.118													2	0.118	i
FY 2007 EQUIPMENT											2	0.120											2	0.120	
FY 2008 EQUIPMENT													2	0.122									2	0.122	i
FY 2009 EQUIPMENT															2	0.124							2	0.124	i
FY 2010 EQUIPMENT																	2	0.126					2	0.126	i
FY 2011 EQUIPMENT																			3	0.192			3	0.192	i
TO COMPLETE EQUIPMENT	г																								i
TO COMPLETE																									
	Installation	s Schedule	FY	2005		<u> </u>	FY	2006		<u> </u>	FY	2007		<u> </u>	EV	2008			FY	2009		<u> </u>	FY 2	2010	
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2
Out	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0
	U	U				U	<u>'</u>		U	. 0		<u>'</u>	. 0				J	J	'			J	'	- '	
		FV.	2011			TO CO	MPLETE						1												
	1	2	3	4	1	2	3	4	To Co	mplete	Tr	otal													
lo.	0	0		3	0	0	0					15	1												
In Out			0					0		0			1												
Out	0	1	1	0	0	0	0	0		3	1	5													

CLASSIFICATION: UNCLASSIFIED Exhibit P-3a MODELS OF SYSTEMS AFFECTED: AN/FRN-42, AN/URN-25, OE-258A/URN TYPE MODIFICATION: MODERNIZATION MODIFICATION TITLE: X1019 - TACAN BEACON UPGRADE DESCRIPTION / JUSTIFICATION: Shore Station TACAN system upgrade ECPs which will employ a COTS upgrade to BEACON. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Developmental Item PRIOR YEARS FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TO COMPLETE TOTAL Financial Plan (in Millions) QTY QTY QTY QTY QTY QTY QTY QTY QTY RDT&E PROCUREMENT INSTALLATION KITS
INSTALLATION KITS
NONRECURRING EQUIPMENT ECP-BEACON 0.160 2.700 4.293 4.554 3.230 102 14.937 ECP-SHELTER UPGRADE DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT 0.025 0.030 0.117 0.034 0.036 0.031 0.005 0.278 ENGINEERING 0.195 0.263 2.349 0.015 0.030 0.030 0.005 2.887 QUALITY ASSURANCE 0.013 0.005 0.010 0.01 0.015 0.005 0.063 EVALUATION 0.013 0.013

0.245

4.619

0.364

4.994

0.375

3.620

0.340

102

1.344

19.522

0.020

2.779

0.220

0.319

2.631

INTERIM CONTRACTOR SUPPORT INSTALL COST

TOTAL PROCUREMENT

MODELS OF SYSTEMS AFF	ECTED:	AN/FRN-4	2, AN/URN	-25, OE-25	BA/URN		=										MODIFICA	TION TITL	E:	X1019 - T/	ACAN BEA	CON UPGR	ADE		
INSTALLATION INFORMATION	ON:																								
METHOD OF IMPLEMENTAT	TION:					AIT			-																
ADMINISTRATIVE LEADTIM	E:					6		Months	-			PRODUC	ΓΙΟΝ LEAD	TIME:			6		Months	•					
CONTRACT DATES:			FY 2005	5 <u> </u>	I/A			-	FY 2006		N	I/A		-		FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	5 <u> </u>	I/A			_	FY 2006		N	I/A		-		FY 2007		N/A				FY 2008			
												(\$ in Millio	ns)												_
Cost:			PRIOR	YEARS	FY	2005	FY	2006	FY	2007	FY	2008	FY	2009	FY	2010	FY 2	2011	TO COM	MPLETE	TO CO	MPLETE	TO	TAL	
300.			Qtv	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT			4.9		Ψ.,		4.9		4.9	ų –	4.9		4.9	ų.	4.9		u.,	•	4.9	Ψ	u.y		4.9	ų.	
FY 2005 EQUIPMENT																									
FY 2006 EQUIPMENT																									
FY 2007 EQUIPMENT											1	0.020											1	0.020	
FY 2008 EQUIPMENT													18	0.245									18	0.245	
FY 2009 EQUIPMENT															28	0.364							28	0.364	
FY 2010 EQUIPMENT																	30	0.375					30	0.375	
FY 2011 EQUIPMENT																			25	0.340			25	0.340	
TO COMPLETE EQUIPMENT	Г																								
TO COMPLETE																									
	Installation	schedule				Ī								ı								1			
	PRIOR YEARS		FY	2005			FY	2006	ı		FY	2007	1		FY:	2008	ı		FY 2	2009	ı		FY:	2010	
	12,00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	11	0	7	11	5	5	7	11	8	4
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	7	7	4	6	8	8	6
									ı		ı		1												
		FY 2	2011	1		TO CO	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	5	8	8	4	0	0	0	0		0	1	02	l												
Out	7	9	9	5	0	0	0	0	2	25	1	02													

CLASSIFICATION: UNCLASSIFIED Exhibit P-3a MODELS OF SYSTEMS AFFECTED: AN/FRN-42, AN/URN-25, OE-258A/URN TYPE MODIFICATION: MODERNIZATION MODIFICATION TITLE: X1019 TACAN ANTENNA UPGRADE DESCRIPTION / JUSTIFICATION: Shore Sation TACAN Antenna Upgrade ECP will improve antenna lightning protection. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Developmental Item PRIOR YEARS FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TO COMPLETE TOTAL Financial Plan (in Millions) QTY QTY QTY QTY QTY QTY QTY QTY QTY RDT&E PROCUREMENT INSTALLATION KITS INSTALLATION KITS NONRECURRING EQUIPMENT ECP-Turntable Upgrade ENGINEERING CHANGE ORDERS 0.330 0.336 0.342 0.348 0.35 0.363 0.370 0.500 2.943 DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT 0.087 0.095 0.003 0.003 0.188 ENGINEERING 0.076 0.039 0.026 0.027 0.028 0.029 0.026 0.063 0.314 QUALITY ASSURANCE 0.008 0.008 0.008 0.008 0.01 0.012 0.012 0.022 0.090 ACCEPTANCE TEST & EVALUATION

0.126

0.520

0.132

0.536

0.138

0.546

0.345

0.93

1.083

4.618

0.108

0.586

0.501

0.114

0.493

0.120

0.506

INTERIM CONTRACTOR SUPPORT INSTALL COST

TOTAL PROCUREMENT

DELIVERY DATE: P7 200 NA P2 20 NA P2 200 NA P2 201 NA P2 201 NA P2 200 NA P2 201 NA P2 200 NA P2 201 NA P2 200 NA P2 201 NA P2	MODELS OF SYSTEMS AFF	ECTED:	AN/FRN-4	2, AN/URN	I-25, OE-25	BA/URN		-										MODIFICA	ATION TITL	E:	X1019 TA	CAN ANTE	NNA UPGR	ADE		
PRODUCTION FROTUNE	INSTALLATION INFORMATION	ON:																								
DELIVERY DATE: PY 2005 NA PY 2005 NA PY 2005 NA PY 2007 NA PY 2007 NA PY 2008 NA PY 2008 NA PY 2007 NA PY 2008 NA PY 2008 NA PY 2008 NA PY 2007 NA PY 2008	METHOD OF IMPLEMENTAT	TION:					AIT																			
Prince P	ADMINISTRATIVE LEADTIM	E:					2		Months	:			PRODUC	TION LEAD	TIME:			3		Months	-					
Cost	CONTRACT DATES:			FY 2005	5 <u> </u>	I/A			-	FY 2006		N	I/A		=		FY 2007		N/A		=		FY 2008			
PRICE PRIC	DELIVERY DATE:			FY 2005	5 <u> </u>	I/A			-	FY 2006		N	I/A		-		FY 2007		N/A		-		FY 2008			
PRICE PRIC																										
PRIOR YEARS EQUIPMENT O																										l
PRIOR YEARS EQUIPMENT FY 2005 EQUIPMENT FY 2005 EQUIPMENT FY 2006 E	Cost:								2006										2011							l
PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2005 EQUIPMENT PY 2015 EQUI				Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	l
FY 2005 EQUIPMENT FY 2006 EQUIPMENT FY 2006 EQUI	PRIOR YEARS EQUIPMENT																									l
FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2008 EQUIPMENT FY 2016 EQUI	FY 2005 EQUIPMENT							6	0.108																	l
FY 2008 EQUIPMENT FY 2019 EQUIPMENT FY 2011 EQUIPMENT TO COMPLETE FY 2016 TO USE FY 2006 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2008 TO USE FY 2008 FY 2010 TO USE FY 2010 TO USE FY 2010 TO USE FY 2011 TO USE FY 2010 TO USE FY 2011 TO USE FY	FY 2006 EQUIPMENT									6	0.114													6	0.114	l
FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EQUIPMENT FY 2016 EPY 2017 FY 2008 FY 2017 FY 2008 FY 2009 FY 2010 FY 2011 F	FY 2007 EQUIPMENT											6	0.120											6	0.120	l
FY 2016 EQUIPMENT TO COMPLETE PRIOR	FY 2008 EQUIPMENT													6	0.126									6	0.126	
FY 2011 EQUIPMENT TO COMPLETE EQUIPMENT Installation Schedule PRIOR FY 2005 FY 2006 FY 2007 FY 2008 FY 2000 FY 2010	FY 2009 EQUIPMENT															6	0.132							6	0.132	l
TO COMPLETE EQUIPMENT Installation Schedule PRIOR	FY 2010 EQUIPMENT																	6	0.138					6	0.138	l
Installation Schedule PRIOR	FY 2011 EQUIPMENT																							0	0.000	l
Installation Schedule PRIOR	TO COMPLETE EQUIPMENT	Т																				15	0.345	15	0.345	
PRIOR FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 YEARS 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1	TO COMPLETE																									
YEARS 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Installation	schedule				T				Γ				T				Г				ı			
1 2 3 4 1 3 4 1 3 4				FY	2005			FY	2006			FY	2007			FY	2008	1		FY:	2009			FY 2	2010	
Out 0 0 0 0 0 1 3 2 0 3 3 0 0 3 3 0 0 3 3 0 0 3 3 0 0 0 3 3 0 0 0 3 0		TEARO	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FY 2011 TO COMPLETE 1 2 3 4 1 2 3 4 To Complete Total In 0 6 0 0 0 0 0 9 51	In	0	0	0	0	6	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0
1 2 3 4 1 2 3 4 To Complete Total In 0 6 0 0 0 0 0 9 51	Out	0	0	0	0	0	1	3	2	0	3	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0
1 2 3 4 1 2 3 4 To Complete Total In 0 6 0 0 0 0 0 9 51														-												
ln 0 6 0 0 0 0 9 51			FY:	2011			то со	MPLETE																		
		1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
Out 3 3 0 0 0 0 0 15 51	In	0	6	0	0	0	0	0	0		9	Ę	51													
	Out	3	3	0		0	0		0																	

		BUDGE	T ITEM JU	STIFICATION	ON SHEET						DATE:	
		P-40									February 2	2006
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM I	NOMENCL	ATURE	•		
Other Procurement, Navy	BA 2 - Co	mmunio	cations and	d Electroni	c Equipme	ent	284700, F	ACSFAC				
Program Element for Code B Items:							Other Rela	ited Progra	m Element	S		
							NOT APPL	ICABLE				
	Prior	ID								То	Total	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Program	
Quantity												İ
Cost (\$M)	\$157.6	N/A	\$3.7	\$3.6	\$3.8	\$3.9	\$3.9	\$4.1	\$4.2	Cont	Cont	ĺ

Fleet Area Control and Surveillance Facilities (FACSFAC) are established to provide multi-mission Air Traffic Control and training area management services to the fleet. This service includes scheduling of surface, subsurface, and air operations in off-shore operating areas, surveillance control of air operations and related training evolutions such as Ground Control Intercept and Air Combat Maneuvers. The basic purpose of FACSFAC is to prevent mid-air collisions between military and civilian aircraft and to be responsible for the management and protection of Navy training airspace.

Eight FACSFAC system supported sites have been established as follows: FACSFAC Virginia Capes VA, FACSFAC Jacksonville FL, NAS Key West FL, FACSFAC Pensacola FL, FACSFAC San Diego CA, FACSFAC Pearl Harbor HI, NAS Fallon NV and NAWCAD St. Inigoes MD. It is critical to replace FACSFAC equipment in a planned manner to maintain interoperability within the National Airspace System (NAS) and replace unsupportable obsolescent equipment.

Funding in FY 07 will provide the following:

FY07: 1 Mode S interface (TT171); 1 Automatic Dependent Surveillance (TT179); 1 Flight Planning System Upgrade (TT181); and 7 (ECPs/OCIRs) (TT145).

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a											DATE: February 2	2006
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM I	NOMENCL	ATURE		,	
OTHER PROGUESTATION AND A CO												
OTHER PROCUREMENT, NAVY/ BA 2 - Communications and Electronic Equipment							284700, FA	ACSEAC				
Communications and Electronic Equipment	ID	Prior					204700,17	1001 70			Total	
Procurement Items	Code	Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Program	
TT145 FACSFAC ECPs/OCIRs	N/A										_	
Quantity		VAR	4	6	7	5	2	2	4	Cont	Cont	
Funding		13,170	784	1092	1112	876	135	140	300	Cont	Cont	
TT171 MODE S INTERFACE	N/A											
Quantity			1	1	1	1	1	2	1		8	
Funding			480	490	500	510	520	1,062	541		4,103	
TT177 FACTS 3200 RADAR INPUT	N/A											
Quantity		8									8	
Funding		5,231									5,231	
TT179 AUTOMATIC DEPENDENT SURVEILLANE (ADS)	N/A											
Quantity				1	1	2	3	1			8	
Funding				192	196	400	612	208			1,608	
TT180 COMMUNICATION SYSTEM UPGRADE	N/A											
Quantity								1	3	4	8	
Funding								366	1,122	1,528	3016	
TT181 FLIGHT PLANNING SYSTEM UPGRADE	N/A											
Quantity			4	1	1	1	1				8	
Funding			459	123	131	140	149				1002	
TT184 APPROACH CONTROL INTERFACE	N/A											
Quantity	. 4// 1						2	2	2	2	2 8	
Funding							520	530	541	552	2143	
Other Costs		26,961	1,960	1,665	1,819	1,949	2,059	1,807	1,736	Cont	t Cont	
VARIOUS		440.004										
VARIOUS		112,281										
Total P-1 Funding		157,643	3,683	3,562	3,758	3,875	3,995	4,113	4,240	Cont	Cont	

	WEAPONS SYSTEM COST ANALYSIS	Weapon S	System									DATE:		
	P5											February 2		
APPROP	PRIATION/BUDGET ACTIVITY	-							ID Code	P-1 ITEM NO	MENCLATURE			
Other Pr	ocurement, Navy\ BA 2	nt, Navy\ BA 2												
			Dollars in Thousa	ands										
			Prior Years		FY 2005			FY 2006			FY 2007			
Cost Code	Element of Cost	ID Code	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost		
TT145	FACSFAC ECPS/OCIRS	N/A	13,170	4	196	784	6	182	1,092	7	159	1,112		
TT171	MODE S INTERFACE	N/A		1	480	480	1	490	490	1	500	500		
TT177	FACTS 3200 RADAR INPUT CAPACITY UGRADE	N/A	5,231											
TT179	AUTOMATIC DEPENDENT SURVEILLANE (ADS)	N/A					1	192	192	1	196	196		
TT180	COMMUNICATION SYSTEM UPGRADE	N/A												
TT181	FLIGHT PLANNING SYSTEM UPGRADE	N/A		4	115	459	1	123	123	1	131	131		
TT184	APPROACH CONTROL INTERFACE	N/A												
TT800	ILS	N/A	4,546			288			168	3		177		
TT830	PRODUCTION ENGINEERING	N/A	10,516			347			281			289		
TT900	NON-FMP INSTALLATION	N/A	5,357			1,325			1,216	5		1,353		
TT990	INITIAL TRAINING	N/A	125											
	VARIOUS	N/A	118,698											
			157,643			3,683			3,562	2		3,758		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) Weapon System A. DATE February 2006													
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE			February	2006 SUBHEAD)			
Other Procurement, Navy /BA-2		Communic	ations and Electronics Equipment	RFP	284700, FACSFAC			Date of	42 Specs	TT Date			
		Unit Cost		Issue			Award	First	Available	Revisions			
Cost Element/FiscalYear	Qty	(000)	Location of PCO	Date	Contract Method & Type	Contractor and Location	Date	Delivery	Now	Available			
REMARKS:													
No contract awards planned.													

Exhibit P-3a																				
MODELS OF SYSTEMS AFF	ECTED:	FACSFAC					-	TYPE MO	DIFICATIO	N:							MODIFICA	ATION TITI	.E:	TT145 EC
DESCRIPTION / JUSTIFICA	ATION:																			
The ECP/OCIR program (1 order to increase Air Traffic Technology Refresh, NAVS	Control effi	iciency and sa	afety, impro	ove affordat	ole readines	s, and redu	ice total owi	nership cos	ts. The foll	owing plann	ed ECPs/O	CIRs include	de, but are	not limited to	: FACSFA	C Pearl Ha	arbor and F.	ACSFAC S	an Diego F	
EVELOPMENT STATUS/M/	AJOR DEVE	ELOPMENT M	MILESTONE	ES:	Non-Deve	opmental It	em													
	PRIOR	R YEARS	FY:	2005	FY	2006	FY 2	2007	FY	2008	FY 2	2009	FY:	2010	FY 2	2011	TO COI	MPLETE	TO	<u>OTAL</u>
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS INSTALLATION KITS NONRECURRING																				
EQUIPMENT																				
ECP ENGINEERING CHANGE ORDERS	VAR	13.170	4	0.784	6	1.092	7	1.112	5	0.876	2	0.135	2	0.140	4	0.300	CONT	CONT	CONT	CONT
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS		0.358		0.105		0.036		0.077		0.133		0.052		0.053		0.020	CONT	CONT	CONT	CONT
PRODUCTION																				
ENGINEERING		0.551		0.071		0.060		0.184		0.315		0.237		0.274		0.275	CONT	CONT	CONT	CONT
QUALITY ASSURANCE																	CONT	CONT	CONT	COLIT
INITIAL TRAINING																	CONT	CONT	CONT	CONT
OTHER INTERIM CONTRACTOR		131.516																		131.51
SUPPORT																				

0.552

CONT

150.837

INSTALL COST

TOTAL PROCUREMENT

MODELS OF SYSTEMS AFFE	ECTED:	FACSFAC															MODIFICA	TION TITL	E:	TT145 EC	Ps/OCIRs				
INSTALLATION INFORMATIC	DN:																								
METHOD OF IMPLEMENTAT	ION:					AIT																			
ADMINISTRATIVE LEADTIME	i:					2		Months				PRODUC [*]	TION LEAD	ГІМЕ:		4			Months	-					
CONTRACT DATES:			FY 2005	N	/A			-	FY 2006		N	/A				FY 2007		N/A		-		FY 2008			
DELIVERY DATE:			FY 2005	N	/A			-	FY 2006		N	/A				FY 2007		N/A		-		FY 2008			
			1									(\$ in Millior	ns)	1					1		1				l
Cost:			PRIOR	YEARS	FY	2005	FY:	2006	FY 2	2007	FY:	2008	FY:	2009	FY 2	010	FY 2	2011	TO COI	MPLETE	TO CO	MPLETE	TO	TAL	l
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	l
PRIOR YEARS EQUIPMENT			VAR	5.242																			VAR	5.242	l
FY 2005 EQUIPMENT					4	0.547																	4	0.547	l
FY 2006 EQUIPMENT							6	0.644															6	0.644	l
FY 2007 EQUIPMENT									7	0.762													7	0.762	l
FY 2008 EQUIPMENT											5	0.643											5	0.643	l
FY 2009 EQUIPMENT													2	0.128									2	0.128	l
FY 2010 EQUIPMENT															2	0.130							2	0.130	l
FY 2011 EQUIPMENT																	4	0.245					4	0.245	l
TO COMPLETE EQUIPMENT																			CONT	CONT			CONT	CONT	l
TO COMPLETE																									l
	Installation	Schedule				ı																П			
	PRIOR YEARS		FY 2			-		2006				2007			FY 2					2009				2010	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In -	VAR	0	0	2	2	0	2	2	2	0	2	2	3	0	2	2	1	0	0	1	1	0	0	1	1
Out	VAR	0	0	2	2	0	2	2	2	0	2	2	3	0	2	2	1	0	0	1	1	0	0	1	1
	ı												T												
		FY 2		1			MPLETE	1																	
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal	1												
In	0	0	2	2	0	0	0	0	CO	NT	CC	NT													
Out	0	0	2	2	0	0	0	0	co	NT	CC	NT													

CLASSIFICATION:

Exhibit P-3a																					
MODELS OF SYSTEMS AFFE	ECTED:	FACSFAC	:				-	TYPE MOD	DIFICATION	N:						-	MODIFICA	TION TITL	E:	TT171 MC	ODE S INTERFACE
DESCRIPTION / JUSTIFICA	TION:																				
Upgrade the AN/FYK-17 FA accordance with DoD Direct equipment interoperability by	tive 5030.19	9, "DoD Re	sponsibilitie	s on Federa	al Aviation a	Program. I	Mode "S" is al Airspace S	an enhance System Mati	d aircraft tr ers" (June	ansponder 15,1997), th	system with ne DoD mus	n message st cooperate	data link ca e with the F	apability. The	e FAA is imeffective and	nplementing d efficient m	Mode "S" to anagement	o reduce the of the Nat	ne requiremo ional Airspa	ent for grou ace System	ind-to-air voice communication (NAS), and ensure operation
EVELOPMENT STATUS/MA	JOR DEVE	LOPMENT	MILESTON	NES:	Non-Develo	opmental It	em														
								2007		2000		2000	E 4	0040		2011	TO 000	4D) ETE		-	
Financial Diag (in Million)		YEARS		2005	FY 2			2007	FY 2			2009		<u>2010</u>		2011	TO CON			TAL ®	
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	1
RDT&E PROCUREMENT																					-
INSTALLATION KITS INSTALLATION KITS NONRECURRING																					
EQUIPMENT			1	0.480) 1	0.490	1	0.500	1	0.510	1	0.520	2	1.062	1	0.541			8	4.103	3
ECP ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
ILS				0.020)	0.026		0.030		0.020		0.020		0.020		0.020				0.156	5
PRODUCTION ENGINEERING				0.020)	0.020		0.019		0.020		0.020		0.020		0.020				0.139	9
QUALITY ASSURANCE ACCEPTANCE TEST & EVALUATION																					
OTHER INTERIM CONTRACTOR																					1
SUPPORT INSTALL COST						0.138		0.141	4	0.144	4	0.147	_	0.300	_	0.306				1.176	
INGTALL COST					1	0.138	1	0.141	1	U. 144	- 1	U.147	2	0.300	2	0.306			8	1.1/6	2

TOTAL PROCUREMENT

0.674

MODELS OF SYSTEMS AFF	ECTED:	FACSFAC	:				_										MODIFICA	TION TITL	E: .	TT171 MC	ODE S INTE	ERFACE			
INSTALLATION INFORMATI	ON:																								
METHOD OF IMPLEMENTA	TION:					AIT			-																
ADMINISTRATIVE LEADTIM	E:					2		Months	<u>.</u>			PRODUCT	TION LEAD	TIME:			4		Months						
CONTRACT DATES:			FY 2005	<u> </u>	I/A			-	FY 2006		N	/A		-		FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	. N	//A			-	FY 2006		N	/A		-		FY 2007		N/A				FY 2008			
												(\$ in Million	ns)												•
Cost:			PRIOR	YEARS	FY	2005	FY:	2006	FY:	2007	FY:	2008	FY:	2009	FY:	2010	FY 2	011	TO CON	/PLETE	TO CO	MPLETE	TOT	AL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT							1	0.138															1	0.138	
FY 2006 EQUIPMENT									1	0.141													1	0.141	
FY 2007 EQUIPMENT											1	0.144											1	0.144	
FY 2008 EQUIPMENT													1	0.147									1	0.147	
FY 2009 EQUIPMENT															1	0.150							1	0.150	
FY 2010 EQUIPMENT															1	0.150	1	0.153					2	0.303	
FY 2011 EQUIPMENT																	1	0.153					1	0.153	
TO COMPLETE EQUIPMENT	Т																								
TO COMPLETE																									
	Installation	s Schedule				ı																Ι			
	YEARS	1	2	2005	4	1	2	3	4	1	FY :	3	4	1	2	2008	4	1	FY 2	3	4	1	FY 2	3	4
In	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	1
Out	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	1
	, ·							· ·	Ŭ	Ŭ	Ŭ	· · ·		Ŭ			v	Ü	Ü						
		FV.	2011			TO CO	MPLETE						1												
	1	2	3	4	1	2	3	4	To Co	mplete	т.	otal													
l-									10 00	inpiete															
In .	0	0	1	0	0	0	0	0				8	1												
Out	0	0	1 1	1	0	0	0	0				8	<u> </u>												

Exhibit P-3a																					
MODELS OF SYSTEMS AFFE	CTED:	FACSFAC					-	TYPE MOI	DIFICATION	l:							MODIFICA	TION TITLE	Ē:	TT177 - RA	ADAR INPUT CAPACITY UPGRADE
DESCRIPTION / JUSTIFICA	TION:																				
Increases input sensors pro awareness and control of th	cessed to 15 e FACSFAC	i. Encompa airspace a	isses replac nd adjoining	cement of m g airspaces,	ain process the informa	ors and re-	host of syste	em software ources mus	e. The numb st be presen	per of senso ted to the F	ors available ACSFAC Co	as data so ontrollers.	ources for FA	CSFAC has	increased	and will cor	tinue to inci	rease as the	e result of se	everal FAA F	Programs. In order to maintain situational
DEVELOPMENT STATUS/MA.	JOR DEVEL	OPMENT M	IILESTONE	S:	Non-Devel	opmental Ite	em														
	PRIOR	YEARS	FY 2	2005	FY:	2006	FY 2	2007	FY 2	2008	FY 2	2009	FY:	<u>2010</u>	FY 2	2011	TO COM	<u> MPLETE</u>	<u>TO</u>	<u>ΓAL</u>	
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	7
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS INSTALLATION KITS NONRECURRING]
EQUIPMENT	8	5.231																	8	5.231	<u>-</u>
ECP ENGINEERING CHANGE ORDERS																					
DATA																					1
TRAINING EQUIPMENT]
SUPPORT EQUIPMENT																					
ILS		0.511		0.110																0.621	
PRODUCTION ENGINEERING		0.949		0.163																1.112	2
QUALITY ASSURANCE ACCEPTANCE TEST &]
EVALUATION																					
OTHER INTERIM CONTRACTOR SUPPORT																					-
INSTALL COST	3	0.115	5	0.480															8	0.595] 51

TOTAL PROCUREMENT

MODELS OF SYSTEMS AFFE	CTED:	FACSFAC															MODIFICA	FION TITLE	i:	TT177 - R/	ADAR INPU	IT CAPACIT	Y UPGRAD	E	
INSTALLATION INFORMATIO	N:																								
METHOD OF IMPLEMENTATI	ON:					AIT																			
ADMINISTRATIVE LEADTIME	:					VARIOUS		Months				PRODUCT	ION LEAD	ГІМЕ:		VARI	ous		Months						
CONTRACT DATES:			FY 2005	5 <u> </u>	I/A			-	FY 2006		N	/A		-		FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	5 N	I/A			-	FY 2006		N	/A		-		FY 2007		N/A				FY 2008			
												(\$ in Million	ns)								1				
Cost:			PRIOR	YEARS	FY	2005	FY:	2006	FY:	2007	FY:	2008	FY:	2009	FY:	2010	FY 2	011	TO CO	MPLETE	то со	MPLETE	TO'	TAL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT			3	0.115	5	0.480																	8	0.595	
FY 2005 EQUIPMENT																									
FY 2006 EQUIPMENT																									
FY 2007 EQUIPMENT																									
FY 2008 EQUIPMENT																									
FY 2009 EQUIPMENT																									
FY 2010 EQUIPMENT																									
FY 2011 EQUIPMENT																									
TO COMPLETE EQUIPMENT																									
TO COMPLETE																									
	Installation	Schedule	FY	2005		1	FY	2006			FY	2007			FY	2008			FY	2009		1	FY 2	2010	
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
ln	5	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	3	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		FY 2	2011			TO CO	MPLETE						1												
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
In	0	0	0	0	0	0	0	0		0		8	1												
		0	0	0	0	0	0	0		0		8													
Out	0	1 0	. 0	. 0	0	0	U	U		U		0	<u> </u>												

TOTAL PROCUREMENT

Exhibit P-3a																					
MODELS OF SYSTEMS AFFE	CTED:	FACSFAC						TYPE MOD	PIFICATION	:						=	MODIFICA	TION TITLE	≣: .	TT179 AU	TOMATIC DEPENDENT SURVEILLANCE
DESCRIPTION / JUSTIFICA	TION:																				
	ansmitter (U/	AT), and sa	telite data lir	ink, aircraft i	in OCEANIC	(ADS-A) an	nd CONUS (ADS-B) are	as will broa). Using the 1090 MHz Extended Squitter, aft separation and improve approach
DEVELOPMENT STATUS/MA	JOR DEVEL	OPMENT N	/IILESTONE	ES:	Non-Devel	opmental Ite	em														
	PRIOR	YEARS	FY:	2005	FY.	2006	FY 2	1007	FY 2	2008	FY 2	2009	FY	2010	FY 2	2011	TO COM	<u> MPLETE</u>	<u>TO</u>	ΓAL	
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	_
RDT&E			1			i I															
PROCUREMENT																					•
INSTALLATION KITS																					1
INSTALLATION KITS NONRECURRING																					1
EQUIPMENT					1	0.192	1	0.196	2	0.400	3	0.612	1	0.208					8	1.608	- 3
ECP ENGINEERING CHANGE ORDERS																					1
DATA																					1
TRAINING EQUIPMENT																					1
SUPPORT EQUIPMENT																					
ILS						0.050		0.060		0.080		0.080		0.040						0.310	1 D
PRODUCTION ENGINEERING						0.068		0.066		0.106		0.110		0.067						0.417	
QUALITY ASSURANCE]
ACCEPTANCE TEST & EVALUATION			L'																		
OTHER INTERIM CONTRACTOR SUPPORT																					-
INSTALL COST					1	0.130	1	0.140	2	0.300	3	0.480	1	0.163					8	1.213	1 3

MODELS OF SYSTEMS AFFE	ECTED:	FACSFAC															MODIFICA	TION TITLE	: :	TT179 AU	TOMATIC E	DEPENDENT	T SURVEILI	LANCE	
INSTALLATION INFORMATIO	ON:																								
METHOD OF IMPLEMENTAT	ION:					AIT																			
ADMINISTRATIVE LEADTIME	<u>:</u> :					2		Months				PRODUCT	ION LEAD	ГІМЕ:			1		Months						
CONTRACT DATES:			FY 2005	5 <u> </u>	I/A			•	FY 2006		N	I/A		-		FY 2007		N/A		•		FY 2008			
DELIVERY DATE:			FY 2005	5 <u> </u>	I/A			·	FY 2006	<u> </u>	N	I/A		=		FY 2007		N/A		·		FY 2008			
					ı						ı	(\$ in Million	ns)						ı			1			l
Cost:			PRIOR	YEARS	FY	2005	FY:	2006	FY:	2007	FY	2008	FY	2009	FY	2010	FY 2	2011	TO COM	MPLETE	TO CO	MPLETE	TO	TAL	Ì
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	l
PRIOR YEARS EQUIPMENT																									I
FY 2005 EQUIPMENT																									I
FY 2006 EQUIPMENT							1	0.130															1	0.130	I
FY 2007 EQUIPMENT									1	0.140													1	0.140	1
FY 2008 EQUIPMENT											2	0.300											2	0.300	1
FY 2009 EQUIPMENT													3	0.480									3	0.480	1
FY 2010 EQUIPMENT															1	0.163							1	0.163	I
FY 2011 EQUIPMENT																									1
TO COMPLETE EQUIPMENT																									1
TO COMPLETE																									1
	Installation	Schedule	FY	2005		1	FY	2006			FY	2007			FY	2008			FY 2	2009		1	FY 2	2010	
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	0	1	1	1	0	0	1	0
Out	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	1	1	1	0	0	0	1
		FY 2	2011			TO CO	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal													
ln.	0	0	0	0	0	0	0	0	1200	,		8													
Out	0	0	0	0	0	0	0	0				8													
Out	U	. 0	U	U	U	. 0	U	U				O													

INSTALL COST

TOTAL PROCUREMENT

Exhibit P-3a																				
MODELS OF SYSTEMS AFFE	CTED:	FACSFAC	;				_	TYPE MOI	DIFICATION	:							MODIFICAT	TION TITLE	<u>:</u>	TT180 CC
DESCRIPTION / JUSTIFICA	TION:																			
Upgrade the FACSFAC Ope equipment will be installed. Radio (CM-300). In accorda operational and equipment	Voice switc ance with Do	ches/recorde oD Directive	ers/antennas e 5030.19, "[s will be rep DoD Respo	olaced/upgra	aded. In ord n Federal A	er to resolve	e the freque	ncy spectrui	n over crov	vding proble	m, the FAA	is transition	ing the NAS	to Digital V	HF Commu	nications via	the MDR.	The FAA is	also chan
EVELOPMENT STATUS/MA.	JOR DEVEL	LOPMENT I	MILESTONE	S:	Non-Deve	elopmental It	em													
	<u>PRI</u> OR	YEARS	<u>F</u> Y:	<u>2005</u>	FY	2006	<u>F</u> Y	<u> 2007</u>	<u>F</u> Y :	2008	<u>F</u> Y 2	2009	<u>F</u> Y:	<u>2010</u>	<u>F</u> Y 2	<u> 2011</u>	TO COM	IPLETE	<u>T01</u>	TAL
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
NONRECURRING																				
EQUIPMENT													1	0.366	3	1.122	4	1.528	8	3.016
ECP ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS																				
PRODUCTION ENGINEERING												0.183		0.010		0.010		0.010		0.213
QUALITY ASSURANCE ACCEPTANCE TEST &																				
EVALUATION																				
OTHER INTERIM CONTRACTOR			-			+					-									
SUPPORT																				

MODELS OF SYSTEMS AFFE	ECTED:	FACSFAC					-										MODIFICA	TION TITLE	is	TT180 COM	MMUNICAT	IOIN SYST	EM UPGRA	DE	
INSTALLATION INFORMATIO	ON:																								
METHOD OF IMPLEMENTAT	ION:					AIT																			
ADMINISTRATIVE LEADTIME	Ē:					2		Months	:			PRODUCT	ION LEAD	TIME:			1		Months						
CONTRACT DATES:			FY 2005	<u> </u>	I/A			-	FY 2006		N	/A		•		FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	<u> </u>	I/A			_	FY 2006		N	/A				FY 2007		N/A				FY 2008			
												(\$ in Million	ns)												
Cost:			PRIOR	YEARS	FY	2005	FY	2006	FY:	2007	FY:	2008	FY:	2009	FY:	2010	FY 2	2011	TO COM	//PLETE	TO CO	MPLETE	TO	TAL	l
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	i
PRIOR YEARS EQUIPMENT																									l
FY 2005 EQUIPMENT																									l
FY 2006 EQUIPMENT																									l
FY 2007 EQUIPMENT																									l
FY 2008 EQUIPMENT																									l
FY 2009 EQUIPMENT																									l
FY 2010 EQUIPMENT															1	0.042							1	0.042	l
FY 2011 EQUIPMENT																	3	0.129					3	0.129	l
TO COMPLETE EQUIPMENT																			4	0.176			4	0.176	l
TO COMPLETE																									l
	Installation	Schedule				ı																			
	PRIOR YEARS	1	FY.	2005	4	1	FY:	2006	4	1	FY:	3	4	1	FY:	2008	4	1	FY 2	2009	4	1	FY:	2010	4
lo.	-				0																				
In Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gui	U	U	. 0	U	U	U	. 0	ı u	U	U	ı u	ı u	. 0	U	ı u	U	U	U	U	U	ı u	U	ı u	U	
		EV.	2011		<u> </u>	TOCO	MPLETE						1												
	1	2	2011	4	1	2	3		T- ^		_														
L-								4		mplete		otal													
in .	0	1	1	1	0	0	0	0		4															
Out	0	1	1	11	0	0	0	0		4		8	<u> </u>												

TOTAL PROCUREMENT

Exhibit P-3a																					
MODELS OF SYSTEMS AFFE	CTED:	FACSFAC						TYPE MOD	IFICATION	:							MODIFICA	TION TITLE	≣:	TT181 FLIG	IGHT PLANNING SYSTEM UPGRADE
DESCRIPTION / JUSTIFICA	TION:																				
Obsolete Flight Data Input/O Display Consoles, eliminatin				longer logis	tically suppo	orted by the	FAA will be	replaced. ⁻	The FACSF	AC process	ing equipme	ent will be d	irectly interf	aced with th	ie FAA Fligh	nt Plan Trar	smission Ne	etwork. Flig	ght Plan data	will be pres	esented to the FACSFAC Controllers on their
DEVELOPMENT STATUS/MA	JOR DEVEL	OPMENT N	MILESTONE	S:	Non-Devel	lopmental Ite	·m														
	PRIOR	YEARS	FY 2	2005	FY:	2006	FY 2	1007	FY 2	2008	FY 2	2009	FY:	2010	FY 2	2011	TO CO	MPLETE	<u>TO</u>	<u>TAL</u>	
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
RDT&E																					1
PROCUREMENT																					1
INSTALLATION KITS																					1
INSTALLATION KITS NONRECURRING																					1
EQUIPMENT			4	0.459	1	0.123	1	0.131	1	0.140	1	0.149							8	1.002	- 2
ECP ENGINEERING CHANGE																					1
ORDERS																					†
TRAINING EQUIPMENT																					1
																					†
SUPPORT EQUIPMENT				0.050		0.050		0.040		0.040		0.040								0.400	-
ILS PRODUCTION				0.053		0.056		0.010		0.010		0.010								0.139	
ENGINEERING				0.093		0.133		0.020		0.020		0.020								0.286	3
QUALITY ASSURANCE ACCEPTANCE TEST & EVALUATION																					
OTHER INTERIM CONTRACTOR SUPPORT																					-
INSTALL COST			2	0.298	2	0.304	2	0.310	1	0.158	1	0.161							8	1.231	1 1

MODELS OF SYSTEMS AFFE	ECTED:	FACSFAC					:										MODIFICA	TION TITLI	≣:	TT181 FLI	GHT PLAN	NING SYSTI	EM UPGRA	DE	
INSTALLATION INFORMATIO	DN:																								
METHOD OF IMPLEMENTAT	ION:					AIT			:																
ADMINISTRATIVE LEADTIME	i:					VAR		Months				PRODUCT	ION LEAD	TIME:		V	AR		Months	_					
CONTRACT DATES:			FY 2005	<u> </u>	I/A			-	FY 2006		N	I/A				FY 2007		N/A		-		FY 2008			
DELIVERY DATE:			FY 2005	5 <u> </u>	I/A			-	FY 2006		N	I/A		:		FY 2007		N/A		-		FY 2008			
			1		ı						ı	(\$ in Million	ns)								ı				
Cost:			PRIOR	YEARS	FY	2005	FY:	2006	FY	2007	FY	2008	FY	2009	FY	2010	FY:	2011	TO CO	MPLETE	то со	MPLETE	TOT	ΓAL	
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS EQUIPMENT																									
FY 2005 EQUIPMENT					2	0.298	2	0.304															4	0.602	
FY 2006 EQUIPMENT									1	0.155													1	0.155	
FY 2007 EQUIPMENT									1	0.155													1	0.155	
FY 2008 EQUIPMENT											1	0.158											1	0.158	
FY 2009 EQUIPMENT													1	0.161									1	0.161	
FY 2010 EQUIPMENT																									
FY 2011 EQUIPMENT																									
TO COMPLETE EQUIPMENT																									
TO COMPLETE																									
	Installation	schedule	FY	2005		I	FY:	2006		I	FY	2007			FY	2008			FY:	2009		Ι	FY 2	2010	
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In	0	0	1	1	1	1	0	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
Out	0	0	0	1	1	1	1	0	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0
																									<u></u>
		FY:	2011			TO CO	MPLETE																		
	1	2	3	4	1	2	3	4	To Co	mplete	То	otal													
In	0	0	0	0	0	0	0	0				8													
Out	0	0	0	0	0	0	0	0				8													
												·													

TOTAL PROCUREMENT

Exhibit P-3a																							
MODELS OF SYSTEMS AFFE	CTED:	FACSFAC					-	TYPE MOD	DIFICATION	l:							MODIFICA ⁻	FION TITLE	i:	TT184 - AP	PPROACH CONTROL INT	ERFACE UPGRA	ADE
DESCRIPTION / JUSTIFICA	TION:																						
Provide an interface betwee inter-operability between air local air traffic situation which	traffic contro	ol facilities i	is becoming	a critical sa	aftey factor.	This interfa	ice will allow	the FACSF	AC controll	ers to excha	ange informa	ation more	efficiently wit	th their cour									t
DEVELOPMENT STATUS/MA	JOR DEVEL	OPMENT N	/IILESTONE	ES:	Non-Develo	opmental Ite	əm																
	PRIOR	YEARS	FY 2	2005	FY 2	2006	FY 2	2007	FY:	2008	FY 2	2009	FY 2	2010	FY 2	2011	TO COM	<u> MPLETE</u>	TO	Γ <u>AL</u>			
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	I		
RDT&E																					1		
PROCUREMENT																					I		
INSTALLATION KITS INSTALLATION KITS NONRECURRING																							
EQUIPMENT											2	0.520	2	0.530	2	0.541	2	0.552	8	2.143			
ECP ENGINEERING CHANGE ORDERS																							
DATA					1																I		
TRAINING EQUIPMENT																					I		
SUPPORT EQUIPMENT					1																I		
ILS												0.075		0.076		0.078		0.080		0.309	I		
PRODUCTION ENGINEERING												0.086		0.102		0.104		0.106		0.398	Ì		
QUALITY ASSURANCE ACCEPTANCE TEST & EVALUATION				-																			
OTHER INTERIM CONTRACTOR SUPPORT																							
INSTALL COST											1	0.250	2	0.510	2	0.520	3	0.790	8	2.070	I		

MODELS OF SYSTEMS AFFI	ECTED:	FACSFAC					-										MODIFICA	TION TITLE	: .	TT184 - AF	PPROACH	CONTROL I	INTERFACE	UPGRADE	<u>i</u>
INSTALLATION INFORMATIO	ON:																								
METHOD OF IMPLEMENTAT	ION:					AIT			-																
ADMINISTRATIVE LEADTIME	:					2		Months	<u>-</u>			PRODUCT	TION LEADT	TIME:			1		Months						
CONTRACT DATES:			FY 2005	N	/A			-	FY 2006		N	I/A		•		FY 2007		N/A				FY 2008			
DELIVERY DATE:			FY 2005	N	/A			-	FY 2006		N	I/A				FY 2007		N/A				FY 2008			
												(\$ in Million	ns)												ı
Cost:			PRIOR	YEARS	FY	2005	FY	2006	FY	2007	FY:	2008	FY:	2009	FY:	2010	FY 2	2011	TO COM	//PLETE	TO CO	MPLETE	TO	TAL	i
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	ı
PRIOR YEARS EQUIPMENT																									ı
FY 2005 EQUIPMENT																									ı
FY 2006 EQUIPMENT																									i
FY 2007 EQUIPMENT																									ı
FY 2008 EQUIPMENT	EQUIPMENT																								ı
FY 2009 EQUIPMENT													1	0.250	1	0.255							2	0.505	ı
FY 2010 EQUIPMENT															1	0.255	1	0.260					2	0.515	ı
FY 2011 EQUIPMENT																	1	0.260	1	0.263			2	0.523	ı
TO COMPLETE EQUIPMENT	-																		2	0.527			2	0.527	ì
TO COMPLETE																									i
	Installation	n Schedule				I																ı			
	PRIOR YEARS	<u> </u>		2005				2006				2007				2008			FY 2				FY 2		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
In Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1
Out									0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
	FY 2011												1												
		1		Ι.			MPLETE 3	l .			_														
								4		mplete		otal	1												
ln .	0	0	1	1	0	0	0	0		2		8													
Out	0	1	0	1	0	0	0	0		3		8	l												

CLASSIFICATION:

UNCLASSIFIED

	BUD	GET IT	EM JUSTII	FICATION	SHEET			DATE:				
			P-40)					Fe	bruary 20	06	
APPROPRIATION/BUD	GET ACTIV	ITY					P-1 ITEM NO	OMENCLATU	RE			
Other Procurment	, Navy / B	A-2						285100	IDENTIFIC	CATION SY	STEMS	
Program Element for Co	ode B Items:						Other Relate	d Program El	ements			
0204228N								NOT APPI	ICABLE			
	Prior	ID									То	
	Years	Code		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY												
COST (In Millions)	217.9	A		\$18.2	\$24.6	\$28.6	\$25.9	\$27.4	\$32.5	\$31.8	Cont	Cont

DESCRIPTION: The Identification Systems program procurements installation and certification for the following systems: AN/UPX-37 Digital Interrogator (DI), Common Digital Transponder AN/APX-118, AN/UPX-29(V), MK XIIA Mode 5 and Identification Friend Foe (IFF) support equipment.

The Air Traffic Control Radio Beacon System, Identification Friend or Foe, MK XII System (AIMS) is a DOD directed tri-service program designed to provide a universal air traffic control radar beacon system compatible with the National Airspace System Program. It provides a secure identification system for military use on all combatant ships, selected auxiliaries, patrol craft, and selected Coast Guard ships by allowing all friendly forces to identify each other and neutral forces. The Mark XII system supports several missions such as anti-airwarfare, aerial bombardment, and naval attack.

The purpose of the AN/UPX-37 Digital Interrogator (DI), and Common Digital Transponder (CXP), is to replace 20-25 year old equipment with a reliability and maintenance enhancement through the use of COTS/NDI form/fit/function equipment. These new systems will be enhanced with state-of-the-art technology and open systems architecture, and will be purchased with existing MK XII Improvements funding. Growth capability to incorporate Mode 5 and Mode S functionality is incorporated in equipment design.

The AN/UPX-24(V) Field Change 5 provides open systems architecture for increased expansion capability. The AN/UPX-24(V) Mode S provides improved shipboard combat identification and increases the probability of identification of commercial and neutral aircraft.

The Interrogator System AN/UPX-29(V) is deployed on high capability, state of the art surface platforms that require Identification Friend or Foe (IFF) operational performance beyond that provided by a standard Mark XII system for combat identification.

MK XIIA Mode 5 provides improved secure cooperative combat identification throughout IFF. Mode 5 is a product improvement which is designed to be installed throughout engineering changes to digital MK XII interrogators and transponders including, but not limited to, AN/APX-118, UPX-37, and UPX-24.

FY07 funds the procurement, test, install/certification of; 33 AN/UPX-37 Digital Interrogators, 24 AN/APX-118 CXP, 13 AN/UPX-24(V) FC5s, 1 AN/UPX-24(V) Mode S Upgrade Kits, 69 Mode 5 Upgrade kits and 28 Tactical Air Navigation (TACAN) Upgrade Kits. Additionally, funding will include system certification, repair of integration units, and standardize of initial ship units.

Installing Agent: Shipyard, Alteration Teams (AIT). When installation to be made: Regular Overhaul/Restricted Availability/Selected Restriced Availability Type ship to receive equipment: An IFF system is on every ship in the fleet.

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 63 PAGE NO. 1

	WEAPONS SYSTEM CO	ST ANA	LYSIS			Weapon Sys	stem						DATE:	bruary 20	06
APPRO	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM NO	MENCI ATI	JRE/SUBHEAL)			ге	bruary 20	00
	Procurement, Navy	BA-2				15 0000									
	, ,					Α	285100, I	DENTIFIC	CATION S	YSTEMS					
			TOTAL COST	T IN THOUS	ANDS OF D	OLLARS									
COST	ELEMENT OF COST	ID	Prior		FY 2005			FY 2006			FY 2007			FY 2008	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Utili Cosi	Total Cost
	MK XII DIGITAL INTERROGATOR	Α	33,334	25	97	2,425		112	4,816	33	117	3,861	13	130	
	MK XII COMMON DIGITAL TRANSPONDER AN/UPX-24(V) FC5	A	7,138 8.010	19 12	37 372	696 4.464		56 380	1,404 5.320	24 13	61 400	1,480 5,200	26 9	71 400	1,838 3,600
	AN/UPX-24(V) PGS AN/UPX-24(V) MODE S	A	6,010	12	312	4,464	14	360	5,320	13	100	100	3	103	
	AN/UPX-29 INTERROGATOR SYSTEM	A	6,500										ŭ		000
MT037	MK XIIA MODE 5	В					6	41	244	69	42	2,882	34	42	1,455
MT038	TACAN	Α								28	100	2,800	28	100	
	MK XIIA MODE 5 SUPPORT EQUIPMENT	N/A											VAR	VAR	,
	INTEGRATED LOGISTICS SUPPORT	N/A	14,263			957			678			1,329			1,004
	PRODUCTION ENGINEERING	N/A	32,820			2,188			5,439			4,704			5,857
	QUALITY ASSURANCE PRODUCT IMPROVEMENT	N/A N/A	60 9.388			040			33			67			6
MT860	ACCEPTANCE TEST & EVALUATION	N/A N/A	9,388			218 207			4,150 410			2,023 925			1,021 938
	DEPOT	N/A	1,104			10			410			150			33
	INSTALLATION OF EQUIPMENT (NON-FMP)	N/A	11,179			490			0			32			350
	INSTALLATION OF EQUIPMENT (FMP)	N/A	6,739			6,152			1,891			2,767			3,125
MT990	INITIAL TRAINING	N/A	1,703			362			200			247			252
	VARIOUS 1/		76,646												
	1/This line indicates items bought in previous ye	ars no lo	nger being pur	rchased.											
			217,924			18,169			24,585			28,567			25,876

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 63

PAGE NO.

2

CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYST		NALYSIS				Weapon Sy	stem						DATE:			
		P-5													Februa	ry 2006	
APPRO	PRIATION/BUDGET ACTIVITY						ID Code	P-1 ITEM N	OMENCLAT	URE/SUBHE	AD						
Other F	Procurement, Navy	BA-2															
							Α	285100, I	DENTIFIC	ATION SYS	STEMS NA	VAIRSYSC	OM				
		TOTAL CO	ST IN THOU	SANDS OF D	OLLARS												
COST	ELEMENT OF COST		FY 2009			FY 2010			FY 2011					To C	omplete	i ^T	otal
CODE		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost
		Quantity	Offic Cost	Total Cost	Quantity	Offic Cost	Total Cost	Quantity	Offic Cost	Total Cost	Quantity	Offic Cost	Total Cost	Quantity	Cost	Quantity	COSI
MT031	MK XII DIGITAL INTERROGATOR	8	133	1,064	2	136	272									505	47,462
MT032	MK XII COMMON DIGITAL TRANSPONDER	25	75	1,867	32	73	2,338	32	79	2,528				31	1,891	391	21,180
MT034	AN/UPX-24(V) FC5															73	26,594
MT035	AN/UPX-24(V) MODE S	15	106	1,590	15	109	1,635	15	110	1,650				75	8,250	124	13,534
MT036	AN/UPX-29 INTERROGATOR SYSTEM															2	6,500
MT037	MK XIIA MODE 5	67	44	2,940	118	40	4,720		41	4,120				329	14,049		30,410
MT038	TACAN	21	100	2,100	23	105	2,415		105	4,305				135	14,715		29,13
MT039	MK XIIA MODE 5 SUPPORT EQUIPMENT	VAR	VAR	1,630	VAR	VAR	-,	1	VAR							VAR	9,655
MT800	INTEGRATED LOGISTICS SUPPORT			1,240			1,364	1		966					CONT	ı l	CON
MT830	PRODUCTION ENGINEERING			7,499			9,122			7,728					CONT	1	CONT
MT840	QUALITY ASSURANCE			6			7			7					CONT	1	CON
MT850	PRODUCT IMPROVEMENT			1,796			1,879			1,425					CONT	1	CON
MT860	ACCEPTANCE TEST & EVALUATION			1,117			1,260			1,109					CONT	ı l	CON
MT870	DEPOT			300			30			30					CONT	1	CON
MT900	INSTALLATION OF EQUIPMENT (NON-FMP)			11			40			93					CONT	1	CONT
MT910	INSTALLATION OF EQUIPMENT (FMP)			3,723			4,007			4,863					CONT	1	CON
MT990	INITIAL TRAINING			557			100			40					CONT	1	CON
	VARIOUS															1	76,64
																ı l	
																1	
																ı l	
																i l	
1																	
1																i l	
1																i l	
																	
				27,440			32,514			31,818					CONT	ı l	CON

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

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UNCLASSIFIED

BUDGET PROCUREMEN	IT HISTOR	Y AND PL	ANNING EXHIBIT (P-5A)		Weapon System		a. date Februa	ry 2006	
B. APPROPRIATION/BUDGET ACT	ΓΙVΙΤΥ			C.	P-1 ITEM NOMENCLA	TURE			SUBHEAD	
Other Procurement, Nav	у		BA-2		285100, ID	ENTIFICATION SYS	TEMS		Y2	MT
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	TECH DATA AVAILABLE NOW ?	DATE REVISIONS AVAILABLE
MT031 MK XII DI		(
FY-06 FY-07	43 33	112.0 117.0	NAVAIR NAVAIR	Dec-05	SS/FP/OPT SS/FP	BAE, GREENLAWN, NY BAE, GREENLAWN, NY	Jun-06 Dec-06	Jun-07 Dec-07	YES YES	
MT032 MK XII CXP										
FY-05	19	47.0	NAVAIR	Dec-04	SS/FP	BAE, GREENLAWN, NY	Mar-06	Mar-07	YES	
FY-06	25	56.2	NAVAIR		SS/FP Option	BAE, GREENLAWN, NY	Jun-06	Jun-07	YES	
FY-07	24	61.7	NAVAIR		SS/FP Option	BAE, GREENLAWN, NY	Jan-07	Jan-08	YES	
MT034 AN/UPX-24(V) FC5										
FY-05	12	372.0	NAVAIR	Mar-05	SS/FP	NOR. GRUM.; LA, CA	Sep-05	Dec-06	YES	
FY-06	14	380.0	NAVAIR		SS/FP Option	NOR. GRUM.; LA, CA	May-06	Mar-07	YES	
FY-07	13	400.0	NAVAIR		SS/FP Option	NOR. GRUM.; LA, CA	May-07	Apr-08	YES	
MT035 AN/UPX-24(V) MODE S		400.0			00/50				\/=0	
FY-07	1	100.0	NAVAIR	Dec-06	SS/FP	NOR. GRUM.; LA, CA	Mar-07	Jun-08	YES	
MT038 TACAN										
FY-07	28	100.0	SPAWAR, SD		WX	SPAWAR, SD	May-06	May-07	YES	
MT037 MK XII MODE 5										
FY06	6	40.7	NAVAIR	Mar-05	SS/FP	BAE, GREENLAWN, NY	Mar-06	Mar-07	YES	
FY07	69	41.7	NAVAIR		SS/FP Option	BAE, GREENLAWN, NY	Mar-07	Mar-08	YES	
D. REMARKS	<u> </u>			<u> </u>			ı	1		

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87

> **UNCLASSIFIED** PAGE NO. 4 ITEM NO. 63

CLASSIFICATION: UNCLASSIFIED
P3A INDIV

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:	AN/UPX-	37							_		MOD	IFICATIO	N TITLE:	AN/	UPX-37	DIGITAL	INTERF	OGATO	R (MT	031)		
DESCRIPTION/JUSTIFICATION:																						
Current AN/UPX-27 is late 60's technology poor reliability continue to be problems as requires UPX-37 to provide a more reliable	sociated w	vith the cu	ırrent s	system.	Furthe	r, the cu	rrent s	system si	uffers	upgrade ii	ntegra	tion proble										
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILEST	ONES	Milesto	one III o	decision .	June 1	1998.			_											
	Prior	Years			FΥ	2005	F١	2006	F	Y 2007	F	Y 2008	FY 2	2009	FY	2010	FY	2011		TC	т	OTAL
	QTY	\$	QTY	\$	QTY		QTY		QTY		QTY		QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																					T	
RDT&E																					\mp	
PROCUREMENT																					+ +	
INSTALLATION KITS																					+ +	
INSTALLATION KITS NRE																					+	
EQUIPMENT NRE																					+	
EQUIPMENT	381	33.334			25	2.425	43	4.816	33	3.861	13	1.690	8	1.064	2	0.272					505	47.462
DATA																					+	
TRAINING EQUIPMENT																					+	
SUPPORT EQUIPMENT																						
ILS		3.428				0.224		0.075		0.129		0.099		0.039		0.024		0.006				4.024
PE		4.625				0.377		1.068		1.018		1.107		0.997		0.952		0.988				11.132
PRODUCT IMPROVEMENT		1.601						0.075		0.129		0.099		0.039		0.024		0.006			1	1.973
ACCEPTANCE, TEST & EVALUATION		2.405				0.177		0.200		0.344		0.264		0.104		0.064		0.016				3.574
INITIAL TRAINING		0.144																			1	0.144
INTERIM CONTRACTOR SUPPORT																					1	
INSTALL COST	311	2.581			61	1.134	25	0.725	43	1.290	33	1.023	13	0.481	8	0.304	2	0.078			496	7.616
TOTAL PROCUREMENT		48.118				4.337		6.959		6.771		4.282		2.724		1.640		1.094				75.925
				ITEM NO.	63		PAG	E NO.			5			Exhibit F	P-3A (Inc	dividual M	lodification	on)			CLAS	SIFICATIO

NOTE: FY03 - 9 ADDITIONAL UNITS PURCHASED TO PROVIDE TO THE MODE 5 PROGRAM CONTRACTOR AS GFE. UNITS WILL BE USED FY04-FY08 FOR MODE 5 DT/OT.

UPON COMPLETION OF TESTING, UNITS WILL BE RETURNING TO INVENTORY FOR FIELDING TO FLEET.

PRIOR YEARS 311 2.581 61 1.134 3.72 3.77	P3A (Continued)					
METHOD OF IMPLEMENTATION: AIT ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 12 MONTHS CONTRACT DATES: IFY 2005: Oct-04 FY 2006: Jun-05 FY 2007: Dec-06 DELIVERY DATE: IFY 2005: Oct-05 FY 2006: Jun-07 FY 2007: Dec-07 Cost: Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TO Complete Total Qiy \$	MODELS OF SYSTEMS AFFECTED: AN/U	MODIFICATION TITLE:	AN/UPX-37 DIGITAL INTI	ERROGATOR (MT031)	<u> </u>	
ADMINISTRATIVE LEADTIME: 3 MONTHS PRODUCTION LEADTIME: 12 MONTHS CONTRACT DATES: IFY 2005: Oct-04 FY 2006: Jun-05 FY 2007: Dec-06 DELIVERY DATE: IFY 2005: Oct-05 FY 2006: Jun-07 FY 2007: Dec-07 (\$ in Millions) Cost: Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total Qty \$	INSTALLATION INFORMATION:					
CONTRACT DATES: IFY 2005: Oct-04 FY 2006: Jun-05 FY 2007: Dec-06 DELIVERY DATE: IFY 2005: FY 2006: Jun-07 FY 2007: Dec-06 Section Fraction	METHOD OF IMPLEMENTATION: A	<u></u>				
DELIVERY DATE: IFY 2005: Oct-05 FY 2006: Jun-07 FY 2007: Dec-07	ADMINISTRATIVE LEADTIME: 3 M	HS PRODUCTION LEAD	TIME: 12 MONTHS			
Cost: Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total						
Cost: Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total To Complete PRIOR YEARS 311 2.581 61 1.134 5 43 1.290 5 43 1.290 61 1.290 61 1.290 61 1.23 1.290 1.23 1.290 1.200						
Qty \$ Qty \$	Cost: Prior Years			FY 2009 FY 2010	FY 2011 To Complete	Total
PRIOR YEARS 311 2.581 61 1.134 372 3.77 FY 2005 EQUIPMENT 25 0.725 25 0.72 25 0.72 FY 2006 EQUIPMENT 43 1.290 43 1.29 43 1.29 FY 2007 EQUIPMENT 33 1.023 33 1.023 33 1.048 FY 2009 EQUIPMENT 13 0.481 8 0.304 8 0.304						
FY 2006 EQUIPMENT 43 1.290 43 1.29 FY 2007 EQUIPMENT 33 1.023 33 1.023 FY 2008 EQUIPMENT 13 0.481 13 0.48 FY 2009 EQUIPMENT 8 0.304 8 0.304						372 3.715
FY 2007 EQUIPMENT 33 1.023 33 1.02 FY 2008 EQUIPMENT 13 0.481 13 0.48 FY 2009 EQUIPMENT 8 0.304 8 0.30	FY 2005 EQUIPMENT	25 0.725	5			25 0.725
FY 2008 EQUIPMENT 13 0.481 13 0.48 FY 2009 EQUIPMENT 8 0.304 8 0.30	FY 2006 EQUIPMENT		43 1.290			43 1.290
FY 2009 EQUIPMENT 8 0.304 8 0.30	FY 2007 EQUIPMENT		33 1.023			33 1.023
	FY 2008 EQUIPMENT			13 0.481		13 0.481
FY 2010 FOLUPMENT 2 0.078 2 0.07	FY 2009 EQUIPMENT			8 0.304		8 0.304
	FY 2010 EQUIPMENT				2 0.078	2 0.078
FY 2011 EQUIPMENT	FY 2011 EQUIPMENT					
TO COMPLETE	TO COMPLETE					

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Exhibit P-3A (Individual Modification) CLASSIFICATION: **UNCLASSIFIED**

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVI	DUAL I	MODIFI	CATIO	N																
MODELS OF SYSTEM AFFECTED:	IDENTIFI	CATION	SYS.						_		MOE	DIFICATION	ON TITLE	:MK	XII COI	MMON D	IGITAL 1	TRANSP(OND	R (CXP)	(MT032)	
DECODIDEION/ILIOTIFICATION:																						
DESCRIPTION/JUSTIFICATION:				P. 1.204			(5	2014)						1 1 1 1 1 1 1 1				,				
Current MK-XII transponder systems no lo	0			,			, ,	,	•			,			,		0					
Current surface ship MK-XII transponders													n. The co	mmon dig	lital trans	sponder v	vill use a	n open s	ysten	ns archite	cture to allo)W
future growth, including Mode 5 and Mode	S which	will be in	corpora	ated int	o the pr	oduction	line b	eginning	with t	the FY05	procu	urement.										
DEVELOPMENT STATUS/MAJOR DEVELO	ODMENT	MILEO	CONEC	Milooto	ال مم	ocicion A		2002														
DEVELOPMENT STATUS/MAJOR DEVELO	OPIVIEINI	IVIILES	ONES	Milesic	ne iii u	ecision A	ugusi	2003	-													
	Drior	Years			E\	2005		Y 2006	E\	2007	E\	2008	FY 2	2000	EV	2010	EV	2011		TC	TC	OTAL
	QTY	\$	QTY	- \$	QTY		QTY			\$	QTY		QTY	<u>009</u>	QTY	<u>2010</u> \$	QTY	<u>2011</u> \$	OTV	<u>TC</u> ′ \$	QTY	<u>/IAL</u>
FINIANIOIAL DI ANI (INI MILLIONIO)	QII	Ψ	QII	φ	UII	φ	Q I I	Ψ	UII	Ψ	QII	Ψ	QII	Ψ	QII	Ψ	QII	Ψ	QII	φ	QII	
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS NRE																						
EQUIPMENT NRE																						
EQUIPMENT	177	7.138			19	0.696	25	1.404	24	1.480	26	1.838	25	1.867	32	2.338	32	2.528	31	1.891	391	21.180
Equipment "A"																						
ECP 1 Grp "Software Version Description "		0.020																				0.020
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
ILS		1.775				0.200		0.057		0.075		0.072		0.078		0.075		0.096				2.428
PE		4.151				0.186		1.065		0.525		0.984		1.296		1.425		1.367				10.999
PRODUCT IMPROVEMENT		1.375						0.057		0.075		0.072		0.078		0.075		0.096				1.828
ACCEPTANCE, TEST, & EVALUATION		0.986						0.152		0.200		0.192		0.208		0.200		0.256				2.194

58 | 1.218 | 19 | 0.456 | 25 | 0.625 | 24 | 0.624 |

2.980

3.191

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3.782

26

0.832 25

0.825

4.938

32 1.088 63 2.590

5.431

UNCLASSIFIED

0.010

0.822

10.105

49.586

380

0.010

0.181

2.491

0.641

1.847

17.933

108

DEPOT

INITIAL TRAINING

INSTALL COST

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

^{*} NOTE: FY03 - 11 ADDITIONAL UNITS PURCHASED TO PROVIDE TO THE MODE 5 PROGRAM CONTRACTOR AS GFE. UNITS WILL BE USED FY04-FY08 FOR MODE 5 DT/OT. UPON COMPLETION OF TESTING, UNITS WILL BE RETURNED TO INVENTORY FOR FIELDING TO FLEET.

CLASSIFICATION: UNCLASS P3A (Continued)	IFIED																	
MODELS OF SYSTEMS AFFE	CTED: <u>ID</u>	ENTIFICATIO	ON SYS. MO	DIFICATIO	N TITLE:	MK	XII C	OMMON	DIGITA	AL TRAN	NSPC	NDER	(CXF	P) (MT03	2)			
INSTALLATION INFORMATIO	N:																	
METHOD OF IMPLEMENTATION	ON:	AIT	_															
ADMINISTRATIVE LEADTIME	:6	MONTHS	PRODU	CTION LEA	ADTIME:		11 M	ONTHS		_								
CONTRACT DATES: DELIVERY DATE:	FY 2005: FY 2005:		Mar-06 Mar-07	FY 2 FY 2		Jun Jun	n-06 n-07	<u> </u>				Jan-0 Jan-0						
					in Million										•			
	Prior Years		FY 2005	FY 20		Y 2007		Y 2008		2009		2010				omplete	_	tal
	ty \$	Qty \$	Qty \$	Qty	\$ Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$ 2.005
PRIOR YEARS 10 FY 2005 EQUIPMENT	08 1.847		58 1.218	19 0.	456	+	1				\vdash						166 19	3.065 0.456
FY 2006 EQUIPMENT	+		+ +	19 0.	25	0.625											25	0.436
FY 2007 EQUIPMENT					20	0.023	24	0.624	1 1								24	0.624
FY 2008 EQUIPMENT								0.021	26	0.832							26	0.832
FY 2009 EQUIPMENT									1 -0	0.002	25	0.825					25	0.825
FY 2010 EQUIPMENT													32	1.088			32	1.088
FY 2011 EQUIPMENT															32	0.800	32	0.800
TO COMPLETE															31	1.790	31	1.790
INSTALLATION SCHEDULE FY 2004 & Prior In 108 Out 108	FY 2005 1 2 3 0 19 19	4 1 20 0 20 0		1 2	2007 3 4 8 9 8 9	1 2 0 8 0 8	2008 3 8 8	4 1 8 0 8 0	8	09 3 4 9 9 9 9	1	FY 2010 2 3 8 8 8 8	<u>4</u> 9	FY 2 0 10 0 10		11 (TC 63 63	TOTAL 380 380

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVID	UAL N	ODIFIC	CATIO	V																
MODELS OF SYSTEM AFFECTED:	IDENTIFI	CATION S	YSTE	MS					_		MOD	OIFICATION	ON TITLI	:	AN/UPX	-24(V) F	C5 (MT0:	34)				
DESCRIPTION/JUSTIFICATION:																						
Provides interrogator set AN/UPX-24(V) w	ith an ope	n archited	cture c	onfigura	ation pr	oviding tl	ne cap	pability fo	or futu	re operat	ional	enhance	ments, ir	particula	r Mode S	S and Mo	de 5. Th	is confi	guratio	n will pro	vide	
increased interface capabilities in a fully re	edundant s	system wi	th a si	gnifican	tly redu	iced num	ber of	f line rep	laceat	ole units.												
DEVELOPMENT STATUS/MAJOR DEVEL		MILEST	ONES	<u>:</u>		DNS 001		ROVED 7 2006		Y 2007	EV	′ 2008	EV	2009	EV.	2010	EV.	2011		TC	7	OTAL
	QTY	\$	QTY	\$	QTY						_	\$	QTY	\$	QTY	\$	QTY	\$	QTY	<u>1C</u> \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS NRE																						
EQUIPMENT NRE																						
EQUIPMENT	25	8.010			12	4.464	14	5.320	13	5.200	9	3.600									73	26.594
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
ILS		1.091				0.174		0.025		0.025		0.025		0.025		0.025						1.390
PE		1.633				0.260		0.185		0.272		0.498		0.330								3.178
PRODUCT IMPROVEMENT		0.623				0.088		0.165		0.126		0.050		0.050		0.020						1.122
ACCEPTANCE, TEST & EVALUATION		0.748				0.030		0.025		0.025		0.030		0.030								0.888
DEPOT		0.471																				0.471
INITIAL TRAINING																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	10	0.700			7	0.490	10	0.710	12	0.852	12	0.876	13	0.975	9	0.675					73	5.278

5.079

1.410

0.720 Exhibit P-3A (Individual Modification)

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6.430

6.500

5.506

13.276

TOTAL PROCUREMENT

UNCLASSIFIED

38.921

CLASSIFICATION:

CLASSIFICATION: UNCLA	ASSIF	IED																					
P3A (Continued)																							
MODELS OF SYSTEMS AF	FECT	ГЕD: <u>IC</u>	DENTI	IFICATIO	N SY	s. MOI	DIFIC	ATION TI	TLE:_	Α	N/UP	X-24(V) F	C5 (M	T034)									
INSTALLATION INFORMA	ELS OF SYSTEMS AFFECTED: IDENTIFICATION SYS. MODIFICATION TITLE: AN/UPX-24(V) FC5 (MT034) ALLATION INFORMATION:																						
METHOD OF IMPLEMENT	ATION	N:	AI	IT	_																		
ADMINISTRATIVE LEADTI	ME:		6 M	ONTHS		PRODUC	TION	LEADTI	ΜE: _		15 N	MONTHS											
CONTRACT DATES: DELIVERY DATE:		IFY 2005:				Mar-05 lun-06	_	FY 2006		Ма	ay-06]-07	F	Y 2007: Y 2007:		May-07	10						
DELIVERY DATE.		11 1 2005.	•			1011-00	-				Aug	j-07	'	1 2007.		Aug-0	,0						
Cost:	Pri	or Years	ı		l F	Y 2005	l F	(\$ in Y 2006		rs) Y 2007	l F	Y 2008	l E	7 2009	FV	2010	l EV	′ 2011	To C	Complete	-	Total	1
0031.	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty		Qty		Qty	\$	Qty	\$	Qtv		Qty	\$	Qty	\$	İ
PRIOR YEARS	10			*	7	0.490	8	0.568				*		*		•						1.758	I
FY 2005 EQUIPMENT							2	0.142	10	0.710												0.852	I
FY 2006 EQUIPMENT									2	0.142	12	0.876									14	1.018	I
FY 2007 EQUIPMENT													13	0.975							13	0.975	1
FY 2008 EQUIPMENT															9	0.675					9	0.675	1
FY 2009 EQUIPMENT																							1
FY 2010 EQUIPMENT																							1
FY 2011 EQUIPMENT																							1
TO COMPLETE																							1
INSTALLATION SCHED FY 2004 & Prior	1	FY 200 2 3		4 1	FY 2	3 4	1	FY 2007 2 3 3 4	4	1 2	2008 3	4 1		3 4	1	FY 2010 2 3	4	1 2	<u>' 2011</u>	4	TC	TOTAL	
In 17 Out 10	0	0 0 2 3		1 3 2 1	3 2	2 2 3 4	3	3 4 3 4	3 2	4 4 4	4	3 4 4	4 4	1 2 5 0		3 0 3		0 0			0	73 73	
L															Fyhik	it D 2 A	ر زام ما ا	المنامة	1 a difi a c	ation)			

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: **UNCLASSIFIED**

P3A		INDIVID	UAL I	MODIFIC	CATIO	N																
MODELS OF SYSTEM AFFECTED:	IDENTIFIC	CATION S	SYSTE	MS					_		MOD	DIFICATION	ON TITLI	<u>:</u>	AN/UPX	(-24(V) M	ODE S	(MT035)				
DESCRIPTION/JUSTIFICATION:																						
Incorporation of a Mode S capability in the	AN/UPX-	24(V) to	include	an inte	rface v	ith ship's	s Com	bat Syste	ems.													
NEVEL OR SEVEL OF A TURK SOR DEVEL		= 0.7																				
DEVELOPMENT STATUS/MAJOR DEVEL	OPMEN I	MILEST	ONES	i:		N/A																
	Dries	Vaara				/ 200E		/ 2006		/ 2007		/ 2000	EV.	2000	EV.	2040	ΓV	2011		TC	-	OTAL
	QTY	Years \$	OTV	- _e		<u>2005 </u>		<u>/ 2006</u> \$		<u>/ 2007</u> \$		<u>/ 2008</u>	QTY	2009 \$		<u>2010</u> \$		<u>2011</u> \$		<u>TC</u> \$	_	OTAL \$
	QIY		QTY	•	QIY	 	QIY	<u> </u>	QIY	<u> </u>	QIY	\$	QIY		QTY		QTY	<u> </u>	QIY	<u> </u>	QTY	<u> </u>
INANCIAL PLAN (IN MILLIONS)		<u> </u>																				
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS NRE																						
EQUIPMENT NRE																						
EQUIPMENT									1	0.100	3	0.309	15	1.590	15	1.635	15	1.650	75	8.250	124	13.53
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
LS PE										0.225		0.100		0.300		0.300		0.100				1.025
	1									0.109		0.117		0.615		0.276		0.166				1.283
PE .			_					3.620		1.154				0.565		0.200		0.100				9.280
	3.641							5.520	+		-	0.400		0.250		0.250		0.150	1		-	1.045
PRODUCT IMPROVEMENT	3.641 0.145									0.150		0.100									1 1	
PRODUCT IMPROVEMENT ACCEPTANCE, TEST & EVALUATION										0.150		0.100										
PRODUCT IMPROVEMENT ACCEPTANCE, TEST & EVALUATION DEPOT										0.150		0.033		0.300		0.030		0.030				0.543
PRODUCT IMPROVEMENT ACCEPTANCE, TEST & EVALUATION DEPOT NITIAL TRAINING																						
PE PRODUCT IMPROVEMENT ACCEPTANCE, TEST & EVALUATION DEPOT NITIAL TRAINING INTERIM CONTRACTOR SUPPORT INSTALL COST										0.150	1	0.033	3	0.300	5	0.030	10	0.030	105	6.090	124	0.543

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UNCLASSIFIED

CLASSIFICATION: UNCLA	ASSIF	-IED																								
P3A (Continued)																										
MODELS OF SYSTEMS AF	FEC	TED:	IDI	ENTI	IFICA	TIOI	N SY	S. N	10DIF	-ICA	TION TI	TLE:	AN	/UPX-	24(V) N	MOE	DE S	(MT035))			_				
INSTALLATION INFORMAT	ΓΙΟΝ:	:																								
METHOD OF IMPLEMENTA	IOITA	N: _		Al	IT																					
ADMINISTRATIVE LEADTII	ME:			6 M	IONTH	HS		PROD	UCTI	ON L	EADTIN	ИE: _		15 N	MONTH	IS										
CONTRACT DATES:		FY 20			_			/A	_		Y 2006:	_		V/A			FY 2			Mar-07		_				
DELIVERY DATE:		FY 20	JU5:		_		N.	/A		۲۱	Y 2006:	-		V/A			FY 2	UU7:		Jun-08		-				
											(\$ in M	lillion	s)													
Cost:		ior Yea					F	Y 2005		FY	2006		Ý 2007		Y 2008	3		′ 2009		Y 2010		Y 2011		Complete		Total
	Qty	\$;	Qty	\$	<u> </u>	Qty	\$	C	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																										
FY 2005 EQUIPMENT																										
FY 2006 EQUIPMENT																										
FY 2007 EQUIPMENT														1	0.05	55									1	0.055
FY 2008 EQUIPMENT																	3	0.168							3	0.168
FY 2009 EQUIPMENT																			5	0.285	10	0.580			15	0.865
FY 2010 EQUIPMENT																							15	0.870	15	0.870
FY 2011 EQUIPMENT																							15	0.870	15	0.870
TO COMPLETE																							75	4.350	75	
INSTALLATION SCHEDI FY 2004 & Prior In 0 Out 0		<u>FY</u> 2 0 0	7 2009 3 0 0	<u>5</u>	4 0 0	1 0 0	FY 2 2 0 0	0	4 0 0	1)	Y 2007 2 3 0 0 0 0	4 0 0			0	1 0 0	FY 20 2 0 0	009 3 4 2 1 2 1	1 2 0	FY 2010 2 3 3 5 0 2	0 4 5 3	1 2 4	2011 3 4 3	3	<u>TC</u> 90 105	TOTAL 124 124

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVI	DUAL	MODIFIC	CATION	١																
MODELS OF SYSTEM AFFECTED:	IDENTIFI	CATION	SYSTE	MS					_		MOE	DIFICATION	ON TITL	<u>=:</u>	MK XII N	MODE 5 ((MT037)					
DESCRIPTION/JUSTIFICATION:																						
MK XII MODE 5 provides improved secure	e cooperat	tive comb	nat ide	ntificatio	n throu	aht IFF	MODE	5 is a pro	oduct i	mproven	nent w	hich is de	esigned	o be inst	alled thro	napont e	ngineeri	ng chang	nes to	digital Mi	< XII	\neg
interrogators and transponders including,																						Full
Rate Production units, Support/Test Equi																	,				,	
intate i reduction armo, cappers rest Equi	po, a	u uoooo			u 00		agoc				(, a	u									
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILEST	TONES	S:	ECP	DNS 001	APP	ROVED 9/	99													
										-												
	Prior	Years			FY	2005	F	Y 2006	F١	2007	F١	2008	FY	2009	FY 2	2010	FY	2011		TC	T	OTAL
	QTY	\$	QTY	\$	QTY		QTY	\$	QTY		QTY		QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)								<u> </u>														
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS NRE																						
EQUIPMENT NRE																					1	
EQUIPMENT							6	0.244	69	2.882	34	1.455	67	2.940	118	4.720	100	4.120	329	14.049	723	30.410
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT												1.598		1.630		3.325		2.954				9.507
ILS						0.296		0.450		0.607		0.675		0.765		0.915		0.732		2.752		7.192
PE						0.743		2.375		2.717		3.118		4.225		6.456		5.202		23.051		47.887
PRODUCT IMPROVEMENT						0.130		0.200		0.472		0.794		1.058		1.560		1.223				5.437
ACCEPTANCE, TEST, & EVALUATION										0.139		0.352		0.525		0.746		0.687		1.235		3.684
DEPOT																						
INITIAL TRAINING						0.181		0.200		0.147		0.152		0.257								0.937
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST									6	0.032	69	0.449	34	0.823	67	1.601	118	2.814	429	11.980	723	17.699
TOTAL PROCUREMENT						1.350		3.469		6.996		8.593		12.223		19.323		17.732		53.067		122.753
														Exhibit F	P-3A (Ind	ividual M	odification	on)			CLASS	SIFICATION

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UNCLASSIFIED

CLASSIFICATION: UNCLA P3A (Continued)	ASSIF	IED																				
MODELS OF SYSTEMS AF	FFFC	TED: II	DENTIF	FICATIO	N SYS	S. MOI	DIFIC	ATION TI	TLE:		MK X	II MODE (5 (MT0	(37)								
													_ (-				
NSTALLATION INFORMAT	HON:																					
METHOD OF IMPLEMENT	OITA	N:	Αl٦	Ī																		
ADMINISTRATIVE LEADTI	ME:		3 MC	ONTHS		PRODUC	CTION	LEADTIN	ИЕ: _		12 N	IONTHS										
CONTRACT DATES:		IFY 2005	i:					FY 2006:		Ma	ar-06		F	Y 2007:		Mar-0	7					
DELIVERY DATE:		IFY 2005	i:				_	FY 2006:			Mar-0	7	F	Y 2007:		Ma	r-08					
									(\$ in	Millions)												
Cost:	Pri	or Years			F	Y 2005	F`	Y 2006		/ 2007	F`	Y 2008	F١	Y 2009	F١	/ 2010	F'	Y 2011	To C	omplete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT									6	0.032											6	0.032
FY 2007 EQUIPMENT											69	0.449									69	0.449
FY 2008 EQUIPMENT													34	0.823							34	0.823
FY 2009 EQUIPMENT															67	1.601					67	1.601
FY 2010 EQUIPMENT																	118	2.814			118	2.814
FY 2011 EQUIPMENT																			100		100	2.400
TO COMPLETE																			329	9.580	329	9.580
INSTALLATION SCHED		FY 20			FY 2			FY 2007			2008		FY 20			FY 201		<u>FY 2</u>			<u>TC</u>	TOTAL
& Prior In 0	0	2 3 0 0		4 1 0 0	2	3 4 0 0	0	2 3 0 6	0	1 2 17 18		4 1	9	3 4 8 8	17	2 3 17 17	<u>4</u> 16	30 30	<u>3</u> 29	29	429	723
In 0 Out 0		0 0		0 0	0	0 0	0	0 6	0			17 9	9	8 8		17 17	16	30 30	29	l l	429	723
Out	11 0	U U		UIIU	U	0 0	1 0	0 0	U	11/ 10	1/	17 11 3	7	o o i	1 1/	17 17	10	1130 30	23	231	443	123

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

РЗА		INDIVID	UAL N	ODIFICA	ATION	I																
MODELS OF SYSTEM AFFECTED:	AN/URN-	-25							_		MOE	DIFICATION	ON TITL	<u>E:</u>	TACAN	SYSTEM	I UPGR	ADE (MT	038)			
DESCRIPTION/JUSTIFICATION:																						
Ship Tactical Air Navigation (TACAN) sys	stem unara	ade Unc	ırades v	will includ	le diait	al/COT	S upai	rade to 1	970's	technolo	av TA	CAN bea	acon and	l reduce i	narts ohs	olescenc	·e					
Compared to the content of the con	no upg.c	tuo. opg	,		ao ang.		apg.		0.00	1001111010	9)					0.0000						
DEVELOPMENT STATUS/MAJOR DEVEL	ODMENIT	. WII EST	ONES:		N/A																	
DEVELOR MENT STATOS/MAJOR DEVEL	OI WILINI	WILLST	OIVLO.		14//			-														
	Drior	r Years			EV	2005		2006		2007		Y 2008	EV	2009	EV.	2010	EV	2011		<u>TC</u>	-	TOTAL
	QTY	\$		-	QTY	\$		\$	QTY			′ \$	QTY	<u>2009</u> \$	QTY	\$	QTY		QTY		QTY	\$
FINIANICIAL DI ANI (INLAMILLICATO)	QII		1 1		QII	φ	QII	Ψ	Q I I	Ψ	QII	Ψ	QII	Ψ	QII	Ψ	QII	φ	QII	Ψ		φ
FINANCIAL PLAN (IN MILLIONS)																					lacksquare	
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS NRE		Ī																				
EQUIPMENT NRE																						
EQUIPMENT									28	2.800	28	2.800	21	2.100	23	2.415	41	4.305	135	14.715	276	29.135
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
ILS		1				0.063		0.071		0.268		0.033		0.033		0.025		0.032				0.525
ILS PE		1				0.622		0.746		0.063		0.033		0.036		0.013		0.005				1.518
QA		1						0.033		0.067		0.006		0.006		0.007		0.007				0.126
PRODUCT IMPROVEMENT		1						0.033		0.067		0.006		0.006								0.112
ACCEPTANCE, TEST, & EVALUATION		1						0.033		0.067											\Box	0.100
INTERIM CONTRACTOR SUPPORT		1																Ì				
INSTALL COST		1									28	0.448	28	0.455	21	0.357	23	0.396	176	3.344	276	5.000
TOTAL PROCUREMENT						0.685		0.916		3.332		3.326		2.636		2.817		4.745		18.059	\vdash	36.516

ITEM NO. 63

PAGE NO.

15

Exhibit P-3A (Individual Modification)

CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION: UNCLAP3A (Continued)	ASSIF	IED																					
MODELS OF SYSTEMS A	FECT	ΓED: AN	I/FRN	√-42, AI	N/UF	RN-2	.5 MOI	DIFIC	ATION TI	TLE:	TACA	N SYS	STEM UP	GRAD	E (MT03	8)							
INSTALLATION INFORMA	TION:									-													
METHOD OF IMPLEMENT	ATION	N:	Αľ	T																			
ADMINISTRATIVE LEADTI	ME:		1 M	/ONTH			PRODUC	CTION	LEADTII	ИE: _		12 N	IONTHS										
CONTRACT DATES: DELIVERY DATE:		FY 2004: FY 2004:							FY 2005: FY 2005:	_				FY 20 FY 20	-					2007 2007		May- May-	
									(\$ in l	Millior	ns)												
Cost:	Pri	or Years					Y 2005	F'	Y 2006		Y 2007		Y 2008	F١	/ 2009		Y 2010		2011	To C	Complete		Total
	Qty	\$			(Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																							
FY 2005 EQUIPMENT																							
FY 2006 EQUIPMENT																							
FY 2007 EQUIPMENT												28	0.448									28	0.448
FY 2008 EQUIPMENT														28	0.455							28	0.455
FY 2009 EQUIPMENT																21	0.357					21	0.357
FY 2010 EQUIPMENT																		23	0.396			23	0.396
FY 2011 EQUIPMENT																				41	0.779	41	0.779
TO COMPLETE																				135		135	
INSTALLATION SCHED FY 2004 & Prior In 0		FY 200 2 3 0 0	<u>5</u>	4 1	1	<u>Y 20</u>	006 3 4 0 0	1 0	FY 2007 2 3 0 0	4 0	FY 1 2 12 12 12 12		4 1 0 12	FY 20 2 12	3 4	1 7	FY 2010 2 3 7 7	4		2011 3 7	2 1	<u>TC</u> 176	TOTAL 276 276

ITEM NO. 63 PAGE NO. 16

Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

	BUDO	GET ITE	M JUSTIFI	CATION SI	HEET					DATE:	
	P-4	0								February 2	2006
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM	NOMENCL	ATURE			
Other Procurement, Navy	BA 2 Con	nmunica	ations and	Electronic	s Equip	287600, N	AVAL MIS	SION PLAN	NING SYS	STEM (Navi	MPS)
Program Element for Code B Items:						Other Rela	ated Progra	m Element	S		
	Prior Years	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Program
Quantity											
Cost (\$M)	\$163.2	Α	\$9.0	\$7.8	\$8.3	\$8.6	\$8.8	\$9.0	\$9.2	Cont	Cont

DESCRIPTION: This line item provides funding to procure NavMPS for USN/USNR/USMC/USMCR. Program cost is not directly related to FY hardware quantity; software is a cost factor independant of FY hardware quantity and cost. Items to be funded in this line include:

WorkStations Components - NavMPS procures tactical computer hardware through the non-developmental item acquisition strategy. Tactical computer equipment is used to plan and analyze aircraft routes under various mission configurations and operational threat environments. Primary output is route plans and mission essential data loads for mission execution. New workstations consists of the components to make a complete workstation.

Production Support Services - Cost element includes production support services, engineering support services, independent verification and validation test and acceptance, site activation, quality assurance efforts, etc.

Software Releases - NavMPS produces software releases via an evolutionary acquisition process. These releases contain enhancements bases on fleet inputs and emerging technology. They also contain changes required to retain compatibility with supported platforms, associated weapons, and threat and imagery data bases providing input to NavMPS. Software releases are independent of hardware buys.

FY07 provides funding to procure five hundred fifty (550) flight planning seats and the continuation of enhancements of software releases based on fleet inputs and emerging technology.

BUDGET ITEM JUSTIFICATION SHEET FOR
AGGREGATED ITEMS
P-40a

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY/ BA 2
Communications and Electronics
Equipment

DATE:
February 2006

P-1 ITEM NOMENCLATURE

287600, NAVAL MISSION PLANNING SYSTEM (NavMPS)

Equipment								O.O.T. E/ \		• : =::: \: \: \a	····· • ·
Procurement Items	ID Code	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Program
S7400 NEW WORKSTATIONS	A										
Quantity		318									
Funding		18,479	0	0	0						
		-, -									
S7401 SERVER SUITE	А										
Quantity		21	6								
Funding		5,331	1,626	0	0						
S7402 COMBAT PLANNING SEAT	A										
Quantity		403									
Funding		14,323	0	0	0						
S7403 FLIGHT PLANNING SEAT	A										
Quantity		2979	510	290	550						
Funding		16,122	2,750	1,600	2,750						
S7406 FORCE PLANNING SEAT	A										
Quantity		69	0								
Funding		3,986	0	0	0						
S7407 TRUSTED SYSTEM	A										
Quantity		115									
Funding		3,795	0	0	0						
Other Costs		101,177	4,659	6,153	5,566						
Total P-1 Funding		163,213	9,035	7,753	8,316						

	WEAPONS SYSTEM COST ANALYSIS	Weapon S	ystem						DATE:				Weapon Sy	stem	
	P5								February 2006						
APPROP	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM NO	MENCLATURE							
OTHER F	PROCUREMENT, NAVY\ BA 2 - Communications and	Electronics	Equipment			Α	287600, NAV	AL MISSION P	LANNING SYSTEM	(NavMPS)					
			Dollars in Thousa	ands			•						Dollars in The	ousands	
			Prior Years		FY 2005			FY 2006			FY 2007			FY 2008	
Cost Code	Element of Cost	ID Code	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost
S7400	NEW WORKSTATIONS	Α	18,479												
S7401	SERVER SUITE	Α	5,331	6	271	1,626									
S7402	COMBAT PLANNING SEAT	Α	14,323												
S7403	FLIGHT PLANNING SEAT	Α	16,122	510	5	2,750	290	6	1,600	550	5	2,750			
S7406	FORCE PLANNING SEAT	Α	3,986												
S7407	TRUSTED SYSTEM	Α	3,795												
S7410	SOFTWARE RELEASE		56,235			2,039			2,805			2,635			
S7430	PRODUCTION SUPPORT		36,293			1,970			2,795			2,369			
S7900	NON-FMP INSTALLATION		7,906			650			553			562			
S7910	FMP INSTALLATION		743												
			163,213			9,035			7,753			8,316			

	WEAPONS SYSTEM COST ANALYSIS											DATE:		
	P5											F	ebruary 200	16
APPROP	RIATION/BUDGET ACTIVITY			ID Code	P-1 ITEM N	IOMENCLAT	ΓURE							
OTHER F	PROCUREMENT, NAVY\ BA 2 - Communications and E	!		Α	287600, NA	VAL MISSI	ON PLANNII	NG SYS (Na	vMPS)					
			FY 2009			FY 2010			FY 2011		To Co	mplete	To	otal
Cost Code	Element of Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Cost	QTY	Cost
S7400	NEW WORKSTATIONS													
S7401	SERVER SUITE													
S7402	COMBAT PLANNING SEAT													
S7403	FLIGHT PLANNING SEAT													
S7406	FORCE PLANNING SEAT													
S7407	TRUSTED SYSTEM													
S7410	SOFTWARE RELEASE													
S7430	PRODUCTION SUPPORT													
S7900	NON-FMP INSTALLATION													
S7910	FMP INSTALLATION													

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BUDGET PROCUREMENT HISTORY AND P	LANNING	EXHIBIT (I	P-5A)			Weapon System		A. DATI		
			·					February	2006	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 IT	EM NOMENCLATURE			SUBHEAD)
OTHER PROCUREMENT, NAVY /	BA 2 - C	ommunica	tions and Electronics Equipment			287600, NAVAL MISSION PLANNING SYS (Na	vMPS)		J2	.S7
				RFP	Contract	·		Date of	Specs	Date
		Unit Cost		Issue	Method &		Award	First	Available	Revisions
Cost Element/Fiscal Year	Qty	(000)	Location of PCO	Date	Type	Contractor and Location	Date	Delivery	Now	Available
S7401 SERVER SUITE										
FY 2005	6	271	SPAWAR DET., PHIL, PA	N/A	C-FP	Multiple Vendors	01/2005	05/2005	Yes	
S7403 FLIGHT PLANNING SEAT										
						RED RIVER COMPUTER CO INC, LEBANON,				
FY 2005	510	5	SPAWAR DET., PHIL, PA	N/A	C-FP	NH	03/2005	04/2005	Yes	
FY 2006	290	6	SPAWAR DET., PHIL, PA	N/A	C-FP	TBD	11/2005	01/2006	Yes	
FY 2007	550	5	SPAWAR DET., PHIL, PA	N/A	C-FP	TBD	11/2006	01/2007	Yes	

D. REMARKS: Streamlined acquisition process. Contracts are coordinated through SPAWAR SSC C4I Programs Office, Philadelphia. Contracts are awarded for COTS hardware on a best value basis. The existing NAVAIR CAD2 contract with intergraph Corp. will be utilized if it meets requirements and provides best cost.

(Exhibit P-5A, page 5 of 9)

CLASSIFIC	ATION: L	JNCLA	SSIFIE	ע																
Exhibit P-3a																				
		Aviation Ca	pable Ship	s, Air Station	n Aviation	Units,														
MODELS OF SYSTEMS AFFE	ECTED:	Aviation Tra	aining Supp	ort Facilities	3		_	TYPE MOI	DIFICATION	۱:	Added Cap	oability					MODIFICA	TION TITLE	:	S7401 - SE
DESCRIPTION / JUSTIFICA NAVMPS provides USN and		inners a Co	mmon Aute	omated Sys	itme for ra	pidly proces	sing large o	uantites of	digitized te	rrain, threa	and enviro	onmental da	ta, and airc	raft and we	apon syten	n paramete	rs.			
DEVELOPMENT STATUS / NavMPS is post milestone I		EVELOPME	NT MILES	STONES:																
	PRIOR	YEARS	FY	2005	FY	2006	FY	2007	FY:	2008	FY	2009	FY:	2010	FY 2	2011	TO CO	MPLETE	тс	OTAL OTAL
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	<u>2000</u> S	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$ \$
RDT&E	<u> </u>	113.918	٠	14.614		9.362	<u> </u>	35.949	۷		<u> </u>		<u> </u>	Ψ	<u> </u>			<u> </u>		
PROCUREMENT		110.010		11.011		0.002		00.010												
INSTALLATION KITS																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	21	5.331	6	1.626																
EQUIPMENT NONRECURRING	21	0.001		1.020																
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT						-														
ILS PRODUCTION																				
ENGINEERING																				
QUALITY ASSURANCE ACCEPTANCE TEST &																				
EVALUATION EVALUATION																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				

INSTALL COST

TOTAL PROCUREMENT

CTED:	Aviation Ca	pable Ship	s, Air Statio	ns, Aviation	Units, Aviat	ion Training	g Support Fa	cilities								MODIFICA	TION TITLE		S7401 - SEI	RVER SUIT	E	
N:																						
ON:				Fie	ld Installation T	eam																
:						1	Months	-			PRODUCT	ΓΙΟΝ LEAD	ГІМЕ:			1		Months	-			
			FY 2005			Mar-05	_			FY 2006				<u>-</u>		FY 2007				-		
			FY 2005			Apr-05	_			FY 2006				-		FY 2007				_		
											(\$ in Milli	ons)										
		PRIOR	YEARS	FY	2005	FY	2006	FY:	2007	FY:			2009	FY 2	2010	FY	2011	то со	MPLETE	TO	TAL	
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
		21	5,331																			
				6	1,626																	
		21	5,331	6	1,626																	i
	Schedule				ı				Τ												1	
YEARS	1			4	1			4	1			4	1			4	1			4		
21			3	4			3	4	<u> </u>		3	4			3	*			3	-	1	
21			6																		1	
									•												•	
	FY 2	010			FY:	2011																
1	2	3	4	1	2	3	4	To Co	mplete	To	otal											
LATION INFORMATION:				PRIOR YEARS Qty \$ 21 5.331 Installation Schedule PRIOR FY 2005 1 2 3 21 6 6 21 6 6	PRIOR YEARS FY 2005 PRIOR YEARS FY 2005 PRIOR YEARS FY 2005 21 5,331 21 5,331 6 Installation Schedule PRIOR FY 2005 1 2 3 4 21 6 6 FY 2010	PRIOR YEARS FY 2005 PRIOR YEARS FY 2005 Only \$ Only \$ 21 5,331 6 1,626 Installation Schedule PRIOR FY 2005 FY 2005 1 2 3 4 1 2 3 4 1 2 6 6 7 FY 2010 FY 2010	PRIOR YEARS FY 2005 FY 2011 PRIOR YEARS FY 2005 FY 2011 PRIOR YEARS FY 2005 FY 2011 PRIOR YEARS FY 2005 FY 2011 PRIOR YEARS FY 2005 FY 2011	N:	PRIOR YEARS FY 2005 FY 2006 FY 2011 FY 2010 FY 2011 FY	PRIOR YEARS	N: Feld installation Team	PRODUCT No. Field Installation Team	PRODUCTION LEAD 1		N: Plief tradition Toon 1 Morths PRODUCTION LEADTIME:	N: Paid Intablation Team	N: Fold Institution Train	PRODUCTION LEADTIME: 1	PRODUCTION LEADTIME 1 Moretre 1	NON: PRICE	Pr 2005	PRODUCTION LEADTIME: 1 Munition PRODUCTION LEADTIME: 1 Munition

CLASSIFICA	TION: U	NCLAS	SSIFIE	D																				
Exhibit P-3a																								
		Aviation Ca	apable Ship	s, Air Statio	on Aviation	Units,																		
MODELS OF SYSTEMS AFFE	CTED:	Aviation Tr	aining Supp	ort Facilitie	es		•	TYPE MOI	DIFICATION	۷:	Added Cap	pability					MODIFICA	TION TITLE	i:	S7403 - FLI	IGHT PLANNI	NG SEAT		_
DESCRIPTION / JUSTIFICAT NAVMPS provides USN and		ners a Cor	nmon Autor	mated Syst	me for rapid	dly process	ing large qu	antites of o	digitized teri	ain, threat	and enviror	nmental dat	a, and aircr	aft and wea	apon system	n paramete	rs.							
DEVELOPMENT STATUS / NavMPS is post milestone III	MAJOR DE\	/ELOPMEN	NT MILEST	ONES:																				
		V=+00	=		=		=1.0		=		=		=		=1.0									
	PRIOR		FY 2			2006	FY 2		FY 2			2009	FY 2		FY 2		TO COM			TAL				
Financial Plan (in Millions)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	1			
RDT&E PROCUREMENT		113.918		14.614		9.362		35.949																
INSTALLATION KITS INSTALLATION KITS																					1			
NONRECURRING																					1			
EQUIPMENT EQUIPMENT	2,979	16.122	510	2,750	290	1.600	550	2.750																
NONRECURRING ENGINEERING CHANGE																					1			
ORDERS																								
DATA																								
TRAINING EQUIPMENT																								
SUPPORT EQUIPMENT																					-			
ILS PRODUCTION																					-			
ENGINEERING																								

2979

16.122

510

2750

290

1.600

2.750

QUALITY ASSURANCE ACCEPTANCE TEST & EVALUATION

OTHER
INTERIM CONTRACTOR
SUPPORT

INSTALL COST

TOTAL PROCUREMENT

MODELS OF SYSTEMS AFF	ECTED:	Aviation ca	pable Ships	s, Air Statio	ns, Aviatio	n Units, Avia	ation Trainii	ng Support	Facilities								MODIFICA	TION TITLI	Ē: ,	S7403 - FL	IGHT PLAN	INING SEAT
INSTALLATION INFORMATION	ON:																					
METHOD OF IMPLEMENTAT	TION:				Fie	ld Installation Te	eam															
ADMINISTRATIVE LEADTIM	E:						1	Months				PRODUCT	TION LEAD	TIME:			1		Months			
CONTRACT DATES:			FY 2005			Mar-05				FY 2006		Nov	v-05			FY 2007		Nov	<i>y</i> -06	•		
DELIVERY DATE:			FY 2005			Apr-05				FY 2006		Jar	n-06			FY 2007		Nov	<i>y</i> -07	•		
												(\$ in Millio	ons)									
Cost:			PRIOR	YEARS	FY	2005	FY:	2006	FY 2	2007	FY	2008	FY:	2009	FY 2	2010	FY	2011	TO CO	MPLETE	то	TAL
			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS EQUIPMENT			2,979	16.122																		
FY 2005 EQUIPMENT					510	2,750																
FY 2006 EQUIPMENT							290	1,600														
FY 2007 EQUIPMENT									550	2,750												
FY 2008 EQUIPMENT																						
FY 2009 EQUIPMENT																						
FY 2010 EQUIPMENT																						
FY 2011 EQUIPMENT																						
TO COMPLETE			2,979	16.122	510	2,750	290	1,600	550	2,750												
	Installation	Schedule	FY 2	2005			EV	2006			FV.	2007			FY 2	2000			EV.	2009		1
	YEARS	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
In	2979	,	510				290		*		550		_		_		-			,	-	1
Out	2979		310	510			230	290			330	550										1
					•						•										•	•
		FY 2	2010			FY 2	2011						1									
	1	2	3	4	1	2	3	4	To Co	mplete	To	otal										
In																						

BUDGET ITEM JUSTIFICATION							DATE	Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQU	JIPMENT		I		P-1 ITEM NON BLI 2804 Deplo			SUBHEAD 52JH	I
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY2011	TO COMP	TOTAL
QUANTITY									
COST (in millions)	\$34.8	\$27.7		\$25.7				CONT.	CONT.

Narrative Description/Justification:

Deployable Joint Command and Control (DJC2) is a Secretary of Defense (SecDef) and Chairman, Joint Chiefs of Staff (CJCS) priority DoD transformation initiative that provides a deployable, scalable and tailorable headquarters command and control (C2) capability for each Regional Combatant Commander (RCC), and one maritime variant. It is the material solution to Standing Joint Force Headquarters (SJFHQs), a new capability to be implemented at each RCC starting in FY05. DJC2 will ensure that Joint Force Commanders (JFC) are equipped, as well as trained and organized, to carry out their C2 responsibilities. The DJC2 program addresses both the Quadrennial Defense Review (QDR) finding that a joint command and control architecture needs to be developed for standing Joint Task Forces (JTFs) at each of the RCCs and the need for a deployable Joint Command and Control System described in the Transformation Study Report presented to the Secretary of Defense, April, 2001. It integrates the requirements for and lessons learned from U.S. Central Command's deployable headquarters funded from the FY 2001 Emergency Supplemental Act for Recovery from and Response to Terrorist Attacks on the United States. DJC2 is supported by SECDEF and CJCS. The JCS/Joint Requirement Oversight Council (JROC) has approved the DJC2 Mission Needs Statement (MNS) and Operational Requirements Document (ORD).

DJC2 seeks to provide standing, and standardized, joint C2 systems that can be deployed by RCCs or JTFs, remedying the current practice of relying on ad hoc, unresourced, and stove-piped capabilities cobbled together at the last minute during a crisis. It will support the new SJFHQ concept and doctrine being developed by Joint Forces Command in coordination with other RCCs and the Joint Staff, as tasked by Defense Program Guidance (DPG). RCC and JTF commanders will use a deployable joint command and control capability for day-to-day operations, as well as when deployed for training or contingency operations. The capability is intended for all levels of conflict and will be reconfigurable to meet specific RCC and JTF mission requirements. This capability must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

DJC2 site and unit descriptions are as follows: 4 DJC2 systems garrisoned at PACOM Camp H.M. Smith, HI; SOUTHCOM Miami, FL; CENTCOM MacDill AFB, FL; and EUCOM Stuttgart, Germany. Beginning in FY05, the JFCOM experimentation unit procured with RDT&E will become a production representative POR site and will be upgraded accordingly.

Note that DJC2 is not a follow-on or replacement system for the joint Global Command and Control System (GCCS); rather, DJC2 will utilize GCCS in its core suite of applications, ensuring interoperability with the worldwide-installed base of GCCS-J.

DATE February 2006 **COST ANALYSIS** APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT BLI 2804 Deployable Joint Command and Control (DJC2) 52JH FY 2005 FY 2006 FY 2007 PY FY 2004 TOTAL COST ID UNIT TOTAL UNIT TOTAL UNIT TOTAL UNIT TOTAL CODE CODE COST QTY COST COST COST COST COST COST QTY COST COST **ELEMENT OF COST** QTY QTY JH100 Deployable Joint Command and Control В 2 22,924 45,848 23,710 23,710 1 24,292 24,292 1 DJC2 Upgrades 4,268 8,536 3 1,130 3,389 JH200 Α JH300 Congressional Add: Site Preparations 5,520 Replacement Components: Wind Damage 2,563 JH400 **TOTAL CONTROL** 51,368 34,809 27,681 0

DD FORM 2446, JUN 86

P-1 Shopping List No. 65 - 2 of 4

Exhibit P-5 Cost Analysis
Unclassified
Classification

										A. DATE		
OCURE	EMENT HISTORY AND PLAN	NING									Februa	ry 2006
	RIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMI			. (= .= .)			SUBHEAD	
- BA2 CO	MMUNICATIONS & ELECTRONIC EQUIP	MENI	CONTRACTOR	CONTRACT	BLI 2804 Deployable	RFP	and and Cont	rol (DJC2) DATE	1	1	52JH SPECS	DATE
COST	ELEMENT OF COST	FY	AND LOCATION	METHOD & TYPE	LOCATION OF PCO	ISSUE DATE	AWARD DATE	OF FIRST DELIVERY	QTY	UNIT COST	AVAILABLE NOW	REVISION AVAILAB
1100	DJC2	04	NSWC-Panama City/Various	WX	Panama City, FL		Mar-04	Feb-05	2	22,924	N/A	N/A
		05	NSWC-Panama City/Various	WX	Panama City, FL		Jul-05	Jul-06	1	23,710	YES	N/A
		06	NSWC-Panama City/Various	WX	Panama City, FL		Jun-06	Jun-07	1	24,292	NO	N/A
H200	DJC2 Upgrades	05	NSWC-Panama City/Various	wx	Panama City, FL		Sep-05	Jan-06	2	4,268	YES	N/A
		06	TBD	TBD	Panama City, FL		Feb-06	Jun-06	3	1,130	NO	N/A
1300	Congressional Add: Site Preps	04	NSWC-Panama City/Various	wx	Panama City, FL		N/A	N/A		5,520	N/A	N/A

DATE **PRODUCTION SCHEDULE** February 2006 (DOD EXHIBIT P-21) APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE SUBHEAD NO. OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT DJC2 (#2804) 52JH FISCAL YEAR FISCAL YEAR 06 05 FY07 ACCEP BAL COST ITEM/MANUFACTURER Е CY 04 **CALENDAR YEAR 05 CALENDAR YEAR 06** PROC PRIOR DUE M A М CODE R QTY то AS OF 0 Ν D F M J A S 0 Ν D A S 0 N D 0 Ε Е U U U Е С Ε Ε Α Р Α U U U Ε С 0 Ε С Α Α 0 Α 30-Sep Υ Т Т ٧ С N В R R Υ N L G Р Т ٧ С Ν В R R N L G Р ٧ С FY JH100 DJC2 04 2 0 2 1 05 0 1 Α 1 06 0 Α JH200 DJC2 Upgrades 04 0 0 0 05 2 0 2 Α 06 3 0 3 Α 2 OCT

			PROCUREME	NT LEADTIMES]	
	Manufacturer's	ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
DJC2	TBD		1	11		12 mo.	
DJC2 Upgrades	TBD		1	3		4 mo.	

CLASSIFICATION:

UNCLASSIFIED

			BUDGET IT	TEM JUSTIFI	CATION SH	IEET				DATE:	
				P-40						Febru	ary 2006
APPROPRIATION/BUDG	ET ACTIVITY					P-1 ITEM NO	MENCLATURE				
Other Procurement,	Navy					BLI: 2914	Common I	magery Gro	und Surfa	ce System	s
BA-2/Common Imag	ery Ground S	urface	Systems							-	
Program Element for Cod	e B Items:					Other Related	Program Eleme	ents			
	2004 and	ID								То	Total
	Prior Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Program
QUANTITY											
COST (\$M)	\$0.0	Α	\$49.6	\$20.2	\$78.3	\$101.1	\$82.4	\$84.3	\$86.3	Cont.	Cont.
Initial Spares (\$M)											

The Distributed Common Ground System – Navy (DCGS-N) is the Navy's portion of the OSD DCGS effort. DCGS is a cooperative effort between the services, agencies, and DoD to provide systems capable of automating, coordinating, and correlating, in real time, the reception, processing, exploiting, storing and disseminating of multiple source intelligence (MULTI-INT) from airborne and national reconnaissance assets to provide time-critical fire control solutions for advanced weapon systems and sensors and situational awareness to support C2 decision making and planning. DCGS utilizes the entire spectrum of available intelligence data including Signals Intelligence (SIGINT) data, Multi-Intelligence Reconnaissance data, and Imagery Intelligence (IMINT). The automation/correlation provided by DCGS-N will provide the Navy an ability to quickly target and re-target precision strike weapons, greatly enhancing their effectiveness and lethality.

DCGS-N brings together the proven imagery exploitation capabilities of Joint Services Imagery Processing System – Navy (JSIPS-N) Tactical Input Segment (TIS) and the precision mensuration capability of the Precision Targeting Workstation (PTW) and merges them with the Time Critical Strike/Targeting (TCS/T) capability developed by the Joint Fires Network (JFN) and disseminates this throughout the ashore and afloat nodes through the Joint Concentrator Architecture (JCA). This converged capability provides unparalleled flexibility to the warfighter and rapid response capability against rapidly relocatable, time critical targets.

DCGS-N will become part of the DoD DCGS Network Enterprise via the DCGS Integration Backbone (DIB). Engineering work is funded to migrate legacy JFN/JSIPS systems to this network environment. As DCGS 10.2 is developed by the Air Force, DCGS-N will stay abreast of expanding requirements and ensure compliance with the DoD DCGS network architecture.

DCGS-N procurement plans are based on the purchase of two (2) DCGS-N 1.0 Systems in FY05 for installation in FY06 and OPEVAL in FY07. Post testing, the program plan is based on the procurement of six (6) DCGS-N Systems in FY07, twelve (12) systems in FY08, seven (7) systems in FY09 and seven (7) systems in FY10. These new installations will replace the existing legacy JSIPS/JFN systems currently fielded. This purchase profile reaches the required 34 system FOC target and removes all legacy systems by EOY FY10. Beginning in FY10, Commercial-off-the-Shelf (COTS) refreshes of the 34 existing systems will begin.

P-1 SHOPPING LIST

DD Form 2454, JUN 86 ITEM NO 66 PAGE NO 1

UNCLASSIFIED

(Exhibit P-40, page 1 of 7)

CLASSIFICATION:

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

								DATE:	
								February 20	006
CTIVITY	P-1 ITEM NO	MENCLATURE						BLI:	
ons and Electronics Equipment	Common In	nagery Groun	nd Surface Sy	/stems				291400	
FY 2004 And Prior	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
0.000	49.6	20.2	78.3	101.1	82.4	84.3	86.3	Cont.	Cont.
	FY 2004 And Prior	FY 2004 And Prior FY 2005	FY 2004 And Prior Common Imagery Groun FY 2005 FY 2006	FY 2004 And Prior Common Imagery Ground Surface Sy FY 2006 FY 2007 FY 2007	FY 2004 And Prior Common Imagery Ground Surface Systems FY 2006 FY 2007 FY 2008	FY 2004 And Prior Common Imagery Ground Surface Systems FY 2006 FY 2007 FY 2008 FY 2009	FY 2004 And Prior FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010	FY 2004 And Prior FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011	ACTIVITY ions and Electronics Equipment FY 2004 And Prior P-1 ITEM NOMENCLATURE Common Imagery Ground Surface Systems ELI: 291400 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TO COMP

The Distributed Common Ground System – Navy (DCGS-N) is the Navy's portion of the OSD/Defense Airborne Reconnaissance Office (DARO) DCGS effort. DCGS is a cooperative effort between the services, agencies, and DoD to provide systems capable of automating, coordinating, and correlating, in real time, the reception, processing, exploiting, storing and disseminating of multiple source intelligence (MULTI-INT) and imagery data from airborne and national reconnaissance assets to provide time-critical fire control solutions for advanced weapon systems and sensors. DCGS utilizes the entire spectrum of available intelligence data including Signals Intelligence (SIGINT) data, Multi-Intelligence Reconnaissance data, and Imagery Intelligence (IMINT). The automation/correlation provided by DCGS-N will provide the Navy an ability to quickly target and re-target precision strike weapons, greatly enhancing their effectiveness and lethality.

The DCGS-N Converged Architecture (CA) brings together the proven imagery exploitation capabilities of Joint Services Imagery Processing System – Navy (JSIPS-N) Tactical Input Segment (TIS) and the precision mensuration capability of the Precision Targeting Workstation (PTW) and merges them with the Time Critical Strike/Targeting (TCS/T) capability developed by the Joint Fires Network (JFN). This converged capability provides unparalleled flexibility to the warfighter and rapid response capability against rapidly relocatable, time critical targets.

As DCGS 10.2 is developed by the Air Force, DCGS-N will stay abreast of expanding requirements. Engineering work is funded to ensure compliance with the 10.2 DCGS Integration Backbone (DIB) architecture.

P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM P-5		NALYSIS			Weapon Syste	em				DATE: Februa	ry 2006
	RIATION/BUDGET ACTIVITY ocurement, Navy/BA-2					ID Code		MENCLATURE Imagery G	SUBHEAD Surfa	ce System	s 2914/A25	E
			TOTAL COS	T IN THOUSA	NDS OF DOLL	_ARS						
COST	ELEMENT OF COST	ID Code	2004 and Prior Years		FY 2005			FY 2006			FY 2007	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
5E001	Product Improvements					21,044			10,144			25,23
5E002	Battle Group H/W and S/W Integration					8,074			5,617			16,29
5E003	Equipment Support					11,412			4,391			7,81
5E004	DCGS-N			2	4,100	8,200				6	4,370	26,22
5E005	Installation of DCGS-N Equipment					862						2,76
DD FORM	2446, JUN 86		0			49,592 P-1 SHOPPING			20,152	CLASSIFICAT	ION:	78,32

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATIO

ITEM NO. 66 PAGE NO. 3

UNCLASSIFIED

(Exhibit P-5, page 3 of 7)

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCURE	MENT HISTO	ORY AND F	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
					_				1	ry 2006
B. APPROPRIATION/BUDG					C. P-1 ITEM NON		· · · · · · · · · · · · · · · · · · ·	4	SUBHEAD	A25E
Other Procureme	-					Imagery Ground Sur	tace Sys	stems		
BA-2: Communic	cations an	d Electro	nics Equipment		2914					
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
		(000)								
DCGS-N										
FY2005 FY2007	6	4,100.00 4,370.00	NAVSEA NAVSEA	N/A N/A	Various Various	Classified Classified	NOV 04 NOV 06	DEC 05 JUL 07	NO NO	N/A N/A
D. DEMARKO										
D. REMARKS										
D Form 2446 4 IIII 97			P-1 SHOPPING LIST				Classific	-41		

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

UNCLASSIFIED

ITEM NO. 66 PAGE NO. 4 (Exhibit P-5a, page 4 of 7)

UNCLASSIFIED CLASSIFICATION: РЗА February 2006 INDIVIDUAL MODIFICATION TYPE MODIFICATION: MODELS OF SYSTEM AFFECTED: MODIFICATION TITLE: DCGS-N DCGS-N BLI 2914 Common Imagery Ground Surface Systems DESCRIPTION/JUSTIFICATION: The DCGS-N Converged Architecture (CA) brings together the proven imagery exploitation capabilities of Joint Services Imagery Processing System – Navy (JSIPS-N) Tactical Input Segment (TIS) and the precision mensuration capability of the Precision Targeting Workstation (PTW) and merges them with the Time Critical Strike/Targeting (TCS/T) capability developed by the Joint Fires Network (JFN). This converged capability provides unparalleled flexibility to the warfighter and rapid response capability against rapidly relocatable, time critical targets. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2004 & Prior FY 2005 FY 2007 FY 2009 FY 2010 FY 2011 TOTAL FY 2006 FY 2008 QTY \$ QTY \$ QTY \$ QTY \$ QTY \$ QTY \$ QTY \$ QTY QTY QTY FINANCIAL PLAN (IN MILLIONS) RDT&E PROCUREMENT INSTALLATION KITS **INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING **EQUIPMENT** 8.20 26.22 6 2 **EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS** DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION SUPPORT OTHER (ILS/TEST SUPPORT) OTHER (CSS) INTERIM CONTRACTOR SUPPORT INSTALL COST 0.86 6 2.76

ITEM NO. 66

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CLASSIFICATION:

UNCLASSIFIED

(Exhibit P-3a, page 5 of 7)

TOTAL PROCUREMENT

CLASSIFICATION: UNC	LASS	IFII	ED													Feb	ruary	2006					
P3A (Continued) MODELS OF SYSTEMS AFFECTED			JAL N	ODIFICAT		Continued) DIFICATION	TITLE			mmon In	magery Gr	ound	d Surface Syst	ems	_								
INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION:	AL	TERA	TION	INSTALLA	TION	TEAM (AIT)																	
ADMINISTRATIVE LEADTIME: CONTRACT DATES: FY 2005: DELIVERY DATE: FY 2005:	N// N//					PRODUCT FY 20 FY 20	06:	EADTIME: N/A N/A		3	months						2007: 2007:	N/A N/A					
									(\$	in Millio	ons)												
Cost:		r Year		Y 2005		FY 2006		FY 2007		FY 200			FY 2009		FY 2010		FY 20			Comple			tal
	Qty	/ \$	Qty	\$	Qty	\$	Qty	\$	Qty	: \$	Qt	y	\$	Qty	\$	Qty		\$	Qty	\$	5	Qty	\$
PRIOR YEARS																							
FY 2005 EQUIPMENT			2	9.0	6																		
FY 2006 EQUIPMENT			 -	0.0													1						
FY 2007 EQUIPMENT							6	28.98	3														
FY 2008 EQUIPMENT							<u> </u>	20.00															
FY 2009 EQUIPMENT			1																				
FY 2010 EQUIPMENT							1																
FY 2011 EQUIPMENT																							
TO COMPLETE																							
8 Prior 1 0 0	2005 2 3 4 0 0 2 0 0 2	0			0	FY 2007 2 3 0 0 0 0	4 6	1 <u>FY 2</u>	008 3	4		FY 2	3 4	1	FY 2010 2 3		1	<u>FY</u> 2	2011 3	4	<u>TC</u>	TOTAL]
Out 0 0	0 0 2	0	U	0 0	0	0 0	6	JI					CI ASSI	11	P-3A	NCL	A C (SIE!					

(Exhibit P-3a, page 6 of 7)

ITEM NO. 66

PAGE NO. 6

FY 07 BUDGET PRODUCTIO			, P-2	1													DATE			Fel	brua	ary	200	6					
APPROPRIATION/BUDGET A OTHER PROCUREMENT			Δ2										Weapo	n Sy	stem)				OMI mma					nd S	Surfa	ace S	Syste	ms
<u> </u>	, 147 1	<u>. </u>				l F	Proc	lucti	on F	Rate				Pro	cure	mer					J.1. 11.	nag	J., .	<u> </u>	110	20110	.00 0) y Oto	1110
Item DCGS-N	Class	Name		turer's Locati						MA			T Prior Oct 1		LT A			nitia fg P			eord fg P			Tota	al	lacksquare	Un Mea	it of asure)
																										\sqsubseteq			
ITEM / MANUFACTURER	F	S	Q	D	В		2004			FISC	CAL Y	YEAR	2005 CALENDA	ND VE	A.D. 200)E				 	FIS			2006 DAR Y	EAD (2006			
TEM, WARDI ACTORER	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M J A U Y N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
DCGS-N	05	N	2	0	2		Α												2							F			0
										FISC	CAL Y	YEAR									FIS			2008					
ITEM / MANUFACTURER	F Y	S V	Q T	D E	B A		2006						CALEND	1		I	١.		_		I _			DAR Y	EAR 2		Τ.		В
	·	C	Y	L	Ĺ	O C T	Z O >	D E C	J A N	F E B	M A R	A P R	M J A U Y N		A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J	A U G	S E P	A L
DCGS-N	07	N	6	0	6		Α							2	2	2													
Domorko:																													
Remarks:																													

DD Form 2445, JUL 87 Previous editions are obsolete

P-1 SHOPPING LIST

311 / 244 Exhibit P-21 Production Schedule

		BUDGE	T ITEM JUS	TIFICATION	SHEET			DATE:			
			P.	-40					FEBRU/	ARY 2006	
APPROPRIATION	I/BUDGET A	CTIVITY				P-1 ITEM NO	MENCLATU	RE			
OTHER PROCUR	EMENT, NA\	/Y									
BA-2 Communicat	ions and Elec	ctronics				RADIAC		BLI	: 2920		
Program Element	t for Code B	Items:				Other Relate	ed Program E	Elements			
	Prior	ID								То	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY											
COST											
(In Millions)	8.4		\$12.4	\$13.1	\$10.4	\$10.7	\$10.4	\$9.5	\$9.7	N/A	\$76.1
SPARES COST											
(In Millions)											

ITEM DESCRIPTION/JUSTIFICATION

The Radiation Detection, Indication and Computation (RADIAC) Program is responsible for providing radiation monitoring instruments that detect and measure radiation in accordance with the provisions of Title 10 of the Code of Federal Regulations (10CFR). These instruments are used on all vessels afloat and at every shore installation in order to ensure the safety of personnel and the environment. RADIACs are also required after an act of terrorism or war that involves nuclear material in order to enable continuing warfighting ability.

P-1 SHOPPING LIST

ITEM NO. 67 PAGE NO. 1

CLASSIFICATION:

UNCLASSIFIED

UNCLASSIFIED

	WEAPONS SYSTEM COS P-5	ST ANA	ALYSIS		Weapon S	System							DATE: FEBRUA	RY 2006
	RIATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	IOMENCLATU	RE					SUBHEAD	
	rocurement, Navy					D A DI A O			D. I. 000	•			00140	
BA-2 Co	ommunications and Electronics Equipm	ent	TOTAL COST	IN THOUSANDS	05 0011 400	RADIAC			BLI: 292	0			82M2	
			TOTAL COST	IN THOUSANDS	OF DOLLARS									
COST	ELEMENT OF COST	ID	PRIOR YEARS				FY 2005			FY 2006			FY 2007	
CODE		Code	YEARS			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: N45													
M2100	MULTIFUNCTION RADIAC													
	CONTROL UNIT	Α	506			406	1.389	564	1,130	2.075	2,345	1,000	2.112	2,11
	NEUTRON INTERFACE	Α	16			74	5.527	408						
	ALPHA PROBE	Α	1,441			267	4.391	1,171						
	CHECKSOURCE KITS	Α	4			78	1.123	88						
	FRISKER STATION	Α	1,391			185	2.116	391	50	3.956	198			
M2200	DOSIMETRY SYSTEM													
	DT-702 DOSIMETER	Α							6,500	0.029	187			
	ELECTRONIC DOSIMETER					10,000	0.315	3,152	7,809	0.315	2,461			
	ELECTRONIC DOSIMETER READER					40	1.055	42	34	1.055	36			
	ELECTRONIC DOSIMETER SOFTWARE					20	5.275	106	33	5.275	174			
	CP-1112 UPGRADES		122			23	8.290	191						
	SHOREBASED READER	Α	155			4	158.091	632						
	DOSIMETER IRRADIATOR	Α	228			27	8.290	224						
	DOSIMETRY AREA MONITOR	Α	207											
	NDC EQUIPMENT										31			3:
M2400	OTHER RADIAC													
	ACCEPTANCE TEST PROGRAM		615					697			293			29
	ITEMS UNDER 200K		112					172			196			23
	FIELD CHANGES		66					73			65			6
	CASUALTY DOSIMETER	Α										226,000	0.007	1,63
	MULTI-CHANNEL ANALYZER	Α							8	51.664	413			
	PULSED X-RAY NEUTRON DETECTOR								225	1.036	233			
M2500	AIR SAMPLING SYSTEMS													
	APD UPGRADES		136					137			117			11
	APD KITS										1,219			1,28
M2830	ACQUISITION ENGINEERING		759					866			906			1,09
	Subtotal N45		5,758					8,914			8,874			6,87
	CURT	OTALS	5,758					8,914			8,874			6,87
DD EODM	2446, JUN 86	UTALS	3,738	1	I	D 1 SHC	L PPING LIS		<u> </u>			CLASSIFI	CATIONI	0,87

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM CO	ST ANA	LYSIS		Weapon S	ystem							DATE: FEBRUA	DV 2006
ΔPPR(P-5 DPRIATION/BUDGET ACTIVITY				ID Code	P-1 ITEM	NOMENO	LI ATURE					SUBHEAD	
	rocurement, Navy				ib oode		II IVOIIILIVO	LATORE					OODIILAD	
BA-2 Co	ommunications and Electronics Equipm	nent				RADIAC			BLI: 29	920			82M2	
			TOTAL COS	T IN THOUSANDS	OF DOLLARS									
COST	ELEMENT OF COST	ID Code	PRIOR YEARS				FY 2005			FY 2006			FY 2007	
CODE		Code	TEARS			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: N76													
M2100	MULTIFUNCTION RADIAC													
	CONTROL UNIT	Α	61			49	1.389	69	96	2.075	199	17	2.112	36
	CHECKSOURCE KITS	Α				10	1.123	11						
M2200	DOSIMETRY SYSTEM													
	ELECTRONIC DOSIMETER								2,000	0.315	630			
M2400	OTHER RADIAC													
	ACCEPTANCE TEST PROGRAM		233					148			79			80
	ITEMS UNDER 200K		37					40			53			22
	FIELD CHANGES		17					17			18			26
	CASUALTY DOSIMETER	Α										48,100	0.007	349
M2830	ACQUISITION ENGINEERING		184					191			154			
	Subtotal N76		532					475			1,134			513
	SUBT	TOTALS	6,290					9,389			10,008			7,391
DD FORM	2446, JUN 86			L .	L	P-1 SHO	PPING LIS					CLASSIFI	CATION:	,

UNCLASSIFIED

	WEAPONS SYSTEM COS P-5	ST ANA	LYSIS		Weapon S	System							DATE: FEBRUA	RY 2006
	PRIATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	OMENCLATU	RE					SUBHEAD	
Other P	rocurement, Navy								5					
BA-2 C	ommunications and Electronics Equipm	ent	TOTAL 000T	IN THOUGANDS OF DO	DIL ADO	RADIAC			BLI: 29	920			82M2	
			TOTAL COST	IN THOUSANDS OF DO	JLLAKS									
COST	ELEMENT OF COST	ID Code	PRIOR YEARS				FY 2005			FY 2006			FY 2007	
CODE		Oode	TEARO			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: N77													
M2100	MULTIFUNCTION RADIAC													
	CONTROL UNIT	Α	89			71	1.389	99	176	2.075	365	176	2.112	37
	NEUTRON INTERFACE	Α	8			38	5.527	211						
	ALPHA PROBE	Α	369			68	4.391	300						
	CHECKSOURCE KITS	Α	1			14	1.123	15						
	FRISKER STATION	Α	237			34	2.116	72						
M2200	DOSIMETRY SYSTEM													
	DT-702 DOSIMETER	Α							1,900	0.029	55			
	SHIPBOARD READER		230			23	29.234	672						
	SHOREBASED READER	Α	465											
	ELECTRONIC DOSIMETER								4,000	0.315	1,261	1,725	0.321	55
	ELECTRONIC DOSIMETER READER								95	1.055	100			
	ELECTRONIC DOSIMETER SOFTWARE								90	5.275	475			
M2400	OTHER RADIAC													
	ACCEPTANCE TEST PROGRAM		136					150			70			7
	ITEMS UNDER 200K		33					35			47			4
	FIELD CHANGES		15					15			15			1
	CASUALTY DOSIMETER	Α										3,700	0.007	2
	TRITIUM MONITOR	Α										70	8.415	58
M2500	AIR SAMPLING SYSTEMS													
	APD UPGRADES		298					300			257			25
M2830	ACQUISITION ENGINEERING		73					64			148			15
	Subtotal N77		1,954					1,934			2,793			2,08
								1						
								1						
								1						
								1						
					1									<u> </u>
	SUBT	OTALS	8,244				ADDING LIS	11,323			12,800			9,47

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM C P-5	OST AN	ALYSIS	Weapon S	System							DATE: FEBRUA	ARY 2006
	RIATION/BUDGET ACTIVITY			ID Code	P-1 ITEM N	OMENCLATU	IRE					SUBHEAD	
	rocurement, Navy ommunications and Electronics Equip	mont			RADIAC			BLI: 2	020			82M2	
BA-2 CC	ommunications and Electronics Equip	ment	TOTAL COST IN THOUSA	ANDS OF DOLLARS	KADIAC			BLI: Z	920			02IVI2	
											1		
COST	ELEMENT OF COST	ID Code	PRIOR YEARS			FY 2005			FY 2006			FY 2007	
					Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: N78												
M2100	MULTIFUNCTION RADIAC												
	CONTROL UNIT	Α	27		22	1.389	31	54	2.075	112	54	2.112	11
	NEUTRON INTERFACE	Α			11	5.527	61						
	ALPHA PROBE	Α	37		7	4.391	30						
	CHECKSOURCE KITS	Α			4	1.123	5						
	FRISKER STATION	Α	66		24	2.116	51						
M2200	DOSIMETRY SYSTEM												
	DT-702 DOSIMETER	Α						1,600	0.029	46			
	SHOREBASED READER	Α			5	158.091	790						
	ELECTRONIC DOSIMETER												
M2400	OTHER RADIAC												
	ITEMS UNDER 200K									17			1
	CASUALTY DOSIMETER	Α									92,500	0.007	67
M2500	AIR SAMPLING SYSTEMS												
	APD UPGRADES									78			9
M2830	ACQUISITION ENGINEERING		73				110						
	Subtotal N	78	203				1,078			253			89
			8,447				12,401			13,053			10,37

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM CO P-5	OST ANA	ALYSIS		Weapon S	ystem							DATE: FEBRUA	RY 2006
	RIATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	OMENCLATU	RE					SUBHEAD	
	rocurement, Navy					DADIAO			DI I	0000			00140	
BA-2 C	ommunications and Electronics Equip	ment	TOTAL COST IN	THOUSANDS OF D	OLLARS	RADIAC			BLI	: 2920			82M2	
				THOUSANDS OF E	OCLLANG									
COST	ELEMENT OF COST	ID Code	PRIOR YEARS				FY 2005			FY 2006			FY 2007	
CODE		Code	TLAKS			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: All													
M2100	MULTIFUNCTION RADIAC													
	CONTROL UNIT	Α	682			549	1.389	763	1,456	2.075	3,021	1,247	2.112	2,63
	NEUTRON INTERFACE	Α	25			123	5.527	680						
	ALPHA PROBE	А	1,847			342	4.391	1,502						
	CHECKSOURCE KITS	Α	5			106	1.123	119						
	FRISKER STATION	Α	1,695			243	2.116	514	50	3.956	198			
M2200	DOSIMETRY SYSTEM													
	DT-702 DOSIMETER	Α							10,000	0.029	288			
	ELECTRONIC DOSIMETER					10,000	0.315	3,152	13,809	0.315	4,352	1,725	0.321	55
	ELECTRONIC DOSIMETER READER					40	1.055	42	129	1.055	136			
	ELECTRONIC DOSIMETER SOFTWARE					20	5.275	106	123	5.275	649			
	CP-1112 UPGRADES		122			23	8.290	191						
	SHIPBOARD READER	Α	230			23	29.234	672						
	SHOREBASED READER	Α	621			9	158.091	1,423						
	DOSIMETER IRRADIATOR	Α	228			27	8.290	224						
	DOSIMETRY AREA MONITOR	Α	207											
	NDC EQUIPMENT										31			3
M2400	OTHER RADIAC													
	ACCEPTANCE TEST PROGRAM		984					995			442			44
	ITEMS UNDER 200K		182					248			313			31
	FIELD CHANGES		98					105			98			10
	CASUALTY DOSIMETER	Α										370,300	0.007	2,68
	TRITIUM MONITOR	Α										70	8.415	58
	MULTI-CHANNEL ANALYZER	Α							8	51.664	413		1	1
	PULSED X-RAY NEUTRON DETECTOR								225	1.036	233			
M2500	AIR SAMPLING SYSTEMS												1	
	APD UPGRADES		434					437			452			46
	APD KITS										1,219			1,28
M2830	ACQUISITION ENGINEERING		1,089					1,231			1,208			1,24
	SUE	BTOTALS	8,449					12,401			13,053]	10,37

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

	WEAPONS SYSTEM COS P-5	ST ANALYSIS	3		Weapon Sy	stem							DATE: FEBRUA	RY 2006
	RIATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	OMENCLATU	RE					SUBHEAD	
	rocurement, Navy													
BA-2 C	ommunications and Electronics Eq	luipment	TOTAL 00	OT IN THOUS	ANDO 05 DO	RADIAC			BLI:	2920			82M2	
			TOTAL CO	STIN THOUS	ANDS OF DOL	LARS								
COST	ELEMENT OF COST	ID		FY 2008			FY 2009			FY 2010			FY 2011	
CODE		CODE	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: N45													
M2100	MULTIFUNCTION RADIAC													
	NEUTRON INTERFACE	А	174	5.807	1,010	187	5.923	1,108						
	RADIOGRAPHY PROBE	А	739	1.234	912	763	1.258	960						
	TRANS-URANIC X-RAY	A	110	3.273	360									
	UNIVERSAL PROBE	A	249	1.799	448									
	EOD NEUTRON	A	198	1.637	324									
M2200	DOSIMETRY SYSTEM	,	100	1.007	024									
WIZZOO	ELECTRONIC DOSIMETER	А	4,376	0.327	1,431	5,000	0.333	1,665						
	NDC EQUIPMENT	Α	4,570	0.521	32	3,000	0.555	33			33			34
M2400	OTHER RADIAC				32			33			33			34
WIZ-400	ACCEPTANCE TEST PROGRAM				304			310			316			323
	ITEMS UNDER 200K				203			207			210			215
	FIELD CHANGES				68			69			70			72
	TRAINING RADIAC	А	50	5.359	268	76	5.466	415			70			12
	AN/PDR-65 REPLACEMENT	A	223	5.359	1,195		5.466	1,880						
M2500	AIR SAMPLING SYSTEMS	^	223	5.559	1,195	344	5.400	1,000						
WI2300	AIR PARTICLE DETECTORS	A							98	31.212	3,059	127	31.836	4,043
	AIR PARTICLE SAMPLERS	A							641	31.212	2,001	350	31.636	1,114
M2830	ACQUISITION ENGINEERING	^			607			710		3.121			3.104	
IVI2830		1 1145			687			712			738			781
	Subtota	II N45			7,242			7,359			6,426			6,583
	SUBTO	TALS			7,242			7,359			6,426			6,583
DD EODW	1 2446, JUN 86	IALO	I .	l	7,242		L PPING LIS		<u> </u>	1	6,426	CLASSIFI	CATION:	6,583

	WEAPONS SYSTEM COST A P-5		Weapon System								DATE: FEBRUA	RY 2006		
	IATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	OMENCLATU	RE					SUBHEAD	2000
	ocurement, Navy Immunications and Electronics Equipr	ment				RADIAC			BLI: 29	920				82M2
			TOTAL COS	ST IN THOUSA										
COST	ELEMENT OF COST	ID		FY 2008			FY 2009			FY 2010			FY 2011	
CODE		CODE	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
M2200	Sponsor: N76 DOSIMETRY SYSTEM ELECTRONIC DOSIMETER	А	100	0.327	33	652	0.333	217						
M2400	OTHER RADIAC ACCEPTANCE TEST PROGRAM ITEMS UNDER 200K FIELD CHANGES TRAINING RADIAC	A	34	5.359	82 55 18 182			84 56 19	10		85 57 19		5.007	87 58 19
M2830	AN/PDR-65 REPLACEMENT ACQUISITION ENGINEERING				157			164	40	5.576	223 167	40	5.687	227 173
	Subtotal N76				527			540			551			564
	SUBTOTALS	3			7,769			7,899			6,977			7,147

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

UNCLASSIFIED

	WEAPONS SYSTEM COST AN P-5		Weapon Sy	stem							DATE: FEBRUA	RY 2006		
	ATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	OMENCLATU	RE					SUBHEAD	
	curement, Navy munications and Electronics Equipm	nont				RADIAC			BLI: 2	020			82M2	
BA-2 COIII	indifications and Electronics Equipit	lent	TOTAL COS	ST IN THOUS	ANDS OF DOL				DLI. Z	920			OZIVIZ	
COST	ELEMENT OF COST	ID		FY 2008			FY 2009			FY 2010		l	FY 2011	
CODE		CODE	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: N77													
M2100 MU	ULTIFUNCTION RADIAC													
N	NEUTRON INTERFACE		90	5.807	523	90	5.923	533						
R	RADIOGRAPHY PROBE		10	1.234	12	10	1.258	13						
Т	FRANS-URANIC X-RAY		97	3.273	317									
U	JNIVERSAL PROBE		9	1.799	16									
M2200 DC	OSIMETRY SYSTEM													
E	ELECTRONIC DOSIMETER		2,387	0.327	781	2,067	0.333	688						
M2400 OT	THER RADIAC													
А	ACCEPTANCE TEST PROGRAM				72			74			75			77
п	TEMS UNDER 200K				48			49			50			51
F	FIELD CHANGES				16			16			17			17
т	FRAINING RADIAC		30	5.359	161									
А	AN/PDR-65 REPLACEMENT		4	5.359	21	4	5.466	22						
M2500 AIF	IR SAMPLING SYSTEMS													
	AIR PARTICLE DETECTORS					20	30.600	612	39	31.212	1,217	57	31.836	1,815
	AIR PARTICLE SAMPLERS								220	3.121	687	40	3.184	127
	CQUISITION ENGINEERING				176			185			194			208
	Subtotal N77				2,143			2,192			2,240			2,295
	Gaziotai III /				2,110			2,102			2,2.0			2,200
	SUBTOTALS				9,913			10,091			9,217			9,442
	46 ILIN 96		1		3,313					I		CI ASSIEI	1	3,442

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 67 PAGE NO. 7C

	WEAPONS SYSTEM COST AN P-5		Weapon Sy	stem							DATE: FEBRUARY 2006			
	RIATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	OMENCLATU	IRE					SUBHEAD	
	rocurement, Navy													
BA-2 Co	mmunications and Electronics Equipm	nent	1			RADIAC			BLI: 2	920			82M2	
			TOTAL CO	ST IN THOUS	ANDS OF DOI	LLARS								
COST	ELEMENT OF COST	ID CODE		FY 2008			FY 2009			FY 2010			FY 2011	
CODE		CODE	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: N78													
M2100	MULTIFUNCTION RADIAC													
	NEUTRON INTERFACE		26	5.807	151	13	5.923	77						
	RADIOGRAPHY PROBE		48	1.234	59	24	1.258	30						
	UNIVERSAL PROBE		32	1.799	58									
M2200	DOSIMETRY SYSTEM													
	ELECTRONIC DOSIMETER		900	0.327	294	100	0.333	33						
M2400	OTHER RADIAC													
	ACCEPTANCE TEST PROGRAM				24			24			25			26
	ITEMS UNDER 200K				16			16			17			17
	FIELD CHANGES				5			5			6			6
	TRAINING RADIAC		10	5.359	54									
	AN/PDR-65 REPLACEMENT		16	5.359	86	7	5.466	38						
M2500	AIR SAMPLING SYSTEMS													
	AIR PARTICLE DETECTORS											6	31.836	191
	AIR PARTICLE SAMPLERS								57	3.121	178			
M2830	ACQUISITION ENGINEERING				62			50			55			48
	Subtotal N78				808			274			281			288
	TOTAL				10,720			10,365			9,498			9,730

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

	WEAPONS SYSTEM COST A P-5	·		Weapon Sy	stem							DATE: FEBRUA	RY 2006	
	NATION/BUDGET ACTIVITY				ID Code	P-1 ITEM N	OMENCLATU	RE					SUBHEAD	
	rocurement, Navy ommunications and Electronics Equipn	nont				RADIAC			DI I	2920			82M2	
BA-2 CC	Thirdinations and Electronics Equiping	nent	TOTAL COS	ST IN THOUS	ANDS OF DO				DLI.	2920			OZIVIZ	
			TOTALOO		ANDO OF DO	LLANO								
COST	ELEMENT OF COST	ID CODE		FY 2008			FY 2009			FY 2010			FY 2011	
			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Sponsor: All													
M2100	MULTIFUNCTION RADIAC													
	NEUTRON INTERFACE		290	5.807	1,684	290	5.923	1,718						
	RADIOGRAPHY PROBE		797	1.234	983	797	1.258	1,003						
	TRANS-URANIC X-RAY		207	3.273	678									
	UNIVERSAL PROBE		290	1.799	522									
	EOD NEUTRON		198	1.637	324									
M2200	DOSIMETRY SYSTEM													
	ELECTRONIC DOSIMETER		7,763	0.327	2,539	7,819	0.333	2,604						
	NDC EQUIPMENT				32			33			33			34
M2400	OTHER RADIAC													
	ACCEPTANCE TEST PROGRAM				482			492			501			513
	ITEMS UNDER 200K				322			328			334			341
	FIELD CHANGES				107			109			112			114
	TRAINING RADIAC		124	5.359	665	76	5.466	415						
	AN/PDR-65 REPLACEMENT		243	5.359	1,302	355	5.466	1,940	40	5.576	223	40	5.687	227
M2500	AIR SAMPLING SYSTEMS													
	AIR PARTICLE DETECTORS					20	30.600	612	137	31.212	4,276	190	31.836	6,049
	AIR PARTICLE SAMPLERS								918	3.121	2,865	390	3.184	1,242
M2830	ACQUISITION ENGINEERING				1,082			1,111			1,154			1,210
											1			
											1			
	CURTOTALO				40.700			10,365			9,498			9,730
	SUBTOTALS 2446, JUN 86)			10,720		L PPING LIS		<u> </u>	<u> </u>		CLASSIFI	CATION:	9,730

BUDGET PROCUREMEN	T HISTORY	AND PLA	ANNING EXHIBIT (I	P-5A)		Weapon System		A. DATE		
								F	EBRUARY 2	2006
B. APPROPRIATION/BUDGET ACT	ΓΙVΙΤΥ				C. P-1 ITEM NO	MENCLATURE			SUBHEAD	
Other Procurement, Nav	/y									
BA-2 Communications a	and Electro	nics Equi	pment		RADIAC BI	LI: 2920			82M2	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2005										
MFR CONTROL UNIT	549	1.389	SPAWARSYSCEN	10/02	OPT	SAIC/SAN DIEGO	1/04	10/04	YES	
NEUTRON INTERFACE	123	5.527	NSWC Carderock	11/03	C/FP	TBD	4/04	1/05	YES	
ALPHA PROBE	342	4.391	SPAWARSYSCEN	11/00	OPT	SAIC/SAN DIEGO	1/04	10/04	YES	
MFR CHECKSOURCE KITS	106	1.123	SPAWARSYSCEN	7/02	OPT	AEA TECH QSA INC/GERMANY	1/04	10/04	YES	
FRISKER STATION	243	2.116	SPAWARSYSCEN	9/02	C/FP	SAIC/SAN DIEGO	1/04	10/04	YES	
CP-1112 UPGRADES	23	8.290	SPAWARSYSCEN	NA	NA	LANTORDCOM YORKTOWN	1/04	10/04	YES	
SHIPBOARD READER	23	29.234	SPAWARSYSCEN	4/02	OPT	THERMO EBERLINE/MA	1/04	10/04	YES	
SHOREBASED READER	9		SPAWARSYSCEN	4/02	OPT	THERMO EBERLINE/MA	1/04	10/04	YES	
DOSIMETER IRRADIATOR	27		SPAWARSYSCEN	4/02	OPT	TBD	TBD	TBD	NO	
ELECTRONIC DOSIMETER E DOSIMETER READER	10,000		NSWC Carderock	TBD TBD	C/FP C/FP	TBD TBD	8/06 8/06	12/06 12/06	YES YES	
E DOSIMETER READER E DOSIMETER SOFTWARE	40 20		NSWC Carderock NSWC Carderock	TBD	C/FP	TBD	8/06	12/06	YES	
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 67 PAGE NO. 8

UNCLASSIFIED

BUDGET PROCUREMEN	T HISTORY	AND PLA	ANNING EXHIBIT (F		Weapon System		A. DATE	ATE		
				-				F	EBRUARY 2	.006
B. APPROPRIATION/BUDGET ACT	TVITY				C. P-1 ITEM NON	IENCLATURE			SUBHEAD	
Other Procurement, Nav	vy									
BA-2 Communications a	and Electro	onics Equi	ipment		RADIAC BL	.l: 292000			82M2	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE	
<u>FY 2006</u>										
MFR CONTROL UNIT	1,456		SPAWARSYSCEN	1/05	C/FP	SAIC/SAN DIEGO	1/06	10/06	YES	
FRISKER STATION	50		SPAWARSYSCEN	6/04	OPT	SAIC/SAN DIEGO	1/06	10.06	YES	
DT-702 DOSIMETER	10,000		SPAWARSYSCEN	10/04	OPT	THERMO ELECTRON	1/06	10/06	YES	
ELECTRONIC DOSIMETER	11,809		NSWC Carderock	TBD	C/FP	TBD	8/06	12/06	YES	
E DOSIMETER READER	129		NSWC Carderock	TBD	C/FP	TBD	8/06	12/06	YES	
E DOSIMETER SOFTWARE	123		NSWC Carderock	TBD	C/FP	TBD	8/06	12/06	YES	
PULSED X-RAY DETECTOR	225		NSWC Carderock	TBD	C/FP	TBD	TBD	TBD	NO	
MULTI-CHANNEL ANALYZER	8	51.664	NORFOLK NSY	10/05	C/FP	CANBERRA	3/06	9/06	YES	
D REMARKS										

D. REMARKS

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87 ITEM NO. 67 PAGE NO. 9

UNCLASSIFIED

BUDGET PROCUREMEN	T HISTOR'	AND PLA	ANNING EXHIBIT (F		Weapon System		A. DATE			
								F	EBRUARY 2	006
B. APPROPRIATION/BUDGET ACT					C. P-1 ITEM NOW	IENCLATURE			SUBHEAD	
Other Procurement, Na	vy									
BA-2 Communications a	and Electro	onics Equi	ipment		RADIAC BL	J: 292000			82M2	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2007 MFR CONTROL UNIT ELECTRONIC DOSIMETER CASUALTY DOSIMETER TRITIUM MONITOR	1,247 1,725 370,300 70	0.321 0.007	SPAWARSYSCEN SPAWARSYSCEN SPAWARSYSCEN SPAWARSYSCEN	1/05 TBD 3/06 10/06	OPT OPT C/FP C/FP	SAIC/SAN DIEGO TBD TBD TBD	1/07 8/06 8/06 8/06	10/07 12/06 12/06 12/06	YES YES YES YES	
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 67 PAGE NO. 10

		BUDGE	T ITEM JUST	TIFICATION S	SHEET			DATE:			
			P-4	10				F	February 200	6	
APPROPRIATION/BU	DGET ACTIVIT	Υ				P-1 ITEM NOM	IENCLATURE				
OTHER PROCUREME	ENT, NAVY - (B	A-02) Com	munications &	Electronics Eq	uipment	General Purpo	se Electronic 1	est Equipment	(GPETE) BLI 2	94000 SBHD 82	M6
Program Element for C	Code B Items:					Other Related Program Elements					
	Prior	ID								То	
	Years	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY											
COST											
(In Millions)	\$28.3	Α	\$8.5	\$8.4	\$7.1	\$7.2	\$7.3	\$7.5	\$7.6		\$80.2
SPARES COST											
(In Millions)											

This program provides for the initial procurement and distribution of General Purpose Electronic Test Equipment (GPETE). This equipment is essential to the operational readiness of the Navy for repair, installation, and maintenance (preventive and routine) of electronic systems and equipments, both afloat and ashore. The GPETE procured must meet rigid technical requirements, be cost effective and satisfy valid deficiencies in authorized allowance.

ALLEN ARRAY - U.S. NAVAL OBSERVATORY

FY 06 funding includes Congressional Add in the amount of \$1.5M for purchase of Allen telescope antennas will be transferred to the Naval Observatory account subhead V727 for execution. The antennas will be used to experiment with the Allen Array Telescope test bed. The antennas supporting signal capacity will provide additional sensitivity and improved imaging with the Allen Array. Allen Array will assist the USNO's expansion of the Array to perform preliminary evaluation of the technology of interferometric aperture synthesis for surveillance application.

P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED

DD Form 2454, JUN 86 ITEM NO. 68 PAGE NO. 1

UNCLASSIFIED

	WEAPONS SYSTEM COST ANALYSIS P5									DATE: February 2	006	
OTHER F	RIATION/BUDGET ACTIVITY PROCUREMENT, NAVY - (BA-02) Commu ics Equipment	nications	&	P-1 ITEM NO General Pu				(GPETE) BL				
			TOTAL CO	ST IN THOU	SANDS OF	DOLLARS						
COST	ELEMENT OF COST	ID	Prior		FY 2005			FY2	2006		FY2007	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	_TEST AND EVAL											
M6000	FIBER OPTICS AND DATA COMM	А									80.200	
M6001	SIGNAL GENERATORS & ANALYZERS	A	548	65	2.092	136	68	2.103	143	67	2.179	146
M6002	OSCILLSCPS, METERS & COUNTERS	A	0.0		2.002	.00	00	200		0.	2	
M6003	PROC ENGR AND DOCUMENTATION	А	60			15			13			17
	<u>OCEANOGRAPHY</u>											
M6000	FIBER OPTICS AND DATA COMM	Α										
M6001	SIGNAL GENERATORS & ANALYZERS	А	1,196	24	18.167	436	25	18.360	459	25	18.600	465
M6002	OSCILLSCPS, METERS & COUNTERS	Α	535									
M6003	PROC ENGR AND DOCUMENTATION		192			48			44			54
	<u>SEW & C4</u>											
M6000	FIBER OPTICS AND DATA COMM	Α	1,270	133	3.519	468	122	3.516	429	136	3.213	437
M6001	SIGNAL GENERATORS & ANALYZERS	Α	1,950	348	0.822	286	365	0.795	290	355	0.800	284
M6002	OSCILLSCPS, METERS & COUNTERS	Α					51	6.098	311	54	6.056	327
M6003	PROC ENGR AND DOCUMENTATION	А	359			83			103			117
	SURFACE WARFARE											
M6000	FIBER OPTICS AND DATA COMM	А	423	37	3.541	131	42	3.571	150	42	3.571	150
M6001	SIGNAL GENERATORS & ANALYZERS	А	6,427	1,012	1.860	1,882	891	1.859	1,656	908	1.857	1,686
M6002	OSCILLSCPS, METERS & COUNTERS	Α	660									
M6003	PROC ENGR AND DOCUMENTATION	А	841			388			170			219
	1		14,461			3,873			3,768			3,902

CLASSIFICATION: UNCLASSIFIED

DD FORM 2446, JUN 86 P-1 SHOPPING LIST

ITEM NO. 68 PAGE NO. 2

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS DATE: February 2006 APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE/SUBHEAD OTHER PROCUREMENT, NAVY - (BA-02) Communications & General Purpose Electronic Test Equipment (GPETE) BLI 294000 SBHD 82M6 **Electronics Equipment** TOTAL COST IN THOUSANDS OF DOLLARS COST **ELEMENT OF COST** ID Prior FY 2005 FY2006 FY2007 CODE Code Years Total Cost Total Cost Unit Cost Total Cost **Total Cost** Quantity Unit Cost Quantity Unit Cost Quantity Cont'd from PG-2 14,461 3,873 3,768 3,902 80.200 SUBMARINE WARFARE 473 24 6.917 166 57 3.474 198 30 6.967 209 M6000 FIBER OPTICS AND DATA COMM Α 420 2.186 413 407 2.187 890 M6001 SIGNAL GENERATORS & ANALYZERS 3,253 918 2.145 886 Α M6002 OSCILLSCPS, METERS & COUNTERS Α 277 M6003 PROC ENGR AND DOCUMENTATION 445 120 104 126 Α AIR WARFARE AIR TRAFFIC CONTROL & LANDING SYS 2,004 M6000 Α M6001 SIGNAL GENERATORS & ANALYZERS Α 4,209 85 19.871 1,689 70 19.843 1,389 88 19.977 1,758 M6002 OSCILLSCPS. METERS & COUNTERS Α 2,123 56 6.054 339 M6003 PROC ENGR AND DOCUMENTATION Α 926 186 166 201 **U.S. NAVAL OBSERVATORY** 69235 **Allen Array Antennas** 1,500 1,500 8,452 28,171 7,086

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 68 PAGE NO. 3 CLASSIFICATION: UNCLASSIFIED

UNCLASSIFIED CLASSIFICATION:

BUDGET PROCUREI	MENT HISTO	RY AND PL	ANNING EXHIBIT (I	P-5A)		Weapon Syst	em	A. DATE February 2	2006	
B. APPROPRIATION/BUDGE	T ACTIVITY				C. P-1 ITEM NO	MENCLATURE			SUBHEAD	
OTHER PROCURE	MENT, NAV	Y - (BA-02)	Communication	s &	General Pur	pose Electror	ic Test Ed	quipment	82	M6
, , ,						l 294000				
	CONTRAC							DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
		(000)								
FY-05										
M6000	196	SEE NOTE 4	SEAL BEACH	N/A	wx	SEAL BEACH	11/04	3/05	YES	
M6001	2,046	SEE NOTE 5	SEAL BEACH	N/A	WX	SEAL BEACH	11/04	3/05	YES	
M6002	N/A	_	-	-	-	-	-	_	-	
FY-06										
M6000	215	SEE NOTE 6	SEAL BEACH	N/A	WX	SEAL BEACH	11/05	3/06	YES	
M6001	1,824	SEE NOTE 7	SEAL BEACH	N/A	WX	SEAL BEACH	11/05	3/06	YES	
M6002	107	SEE NOTE 8	SEAL BEACH	N/A	WX	SEAL BEACH	11/05	3/06	YES	
FY-07										
M6000	204	SEE NOTE 9	SEAL BEACH	N/A	WX	SEAL BEACH	11/06	3/07	YES	
M6001	1,840	SEE NOTE 10	SEAL BEACH	N/A	WX	SEAL BEACH	11/06	3/07	YES	
M6002	54	SEE NOTE 11	SEAL BEACH	N/A	WX	SEAL BEACH	11/06	3/07	YES	

D. REMARKS

- NOTE 1: Unit costs are 3577/3537/3448 respectively for Resource Sponsors N61, N76, N77 FIBER OPTICS & DATA COMMUNICATORS
- NOTE 2: Unit cost is 7032 for Resource Sponsor N78 (FY04 only) AIR TRAFFIC CONTROL & LANDING SYSTEMS
- NOTE 3: Unit costs are 2130/17,286/794/2184/2146/17,637 respectively for Resource Sponsors N091, N096, N61, N76, N77, N78
- NOTE 4: Unit costs are 3519/3541/6917 respectively for Resource Sponsors N61, N76, N77
- NOTE 5: Unit costs are 2092/18,167/822/1860/2186/19,871 respectively for Resource Sponsors N091, N093, N61, N76, N77, N78
- NOTE 6: Unit costs are 3516/3571/3474 respectively for Resource Sponsors N61, N76, N77
- NOTE 7: Unit costs are 2103/18,360/795/1859/2145/19843 respectively for Resource Sponsors N091, N093, N61, N76, N77, N78
- NOTE 8: Unit costs are 6098/6054 respectively for Resource Sponsors N61 and N78
- NOTE 9: Unit costs are 3213/3571/6967 respectively for Resource Sponsors N61, N76, N77
- NOTE 10: Unit costs are 2179/18,600/800/1857/2187/19,977 respectively for Resource Sponsors N091, N093, N61, N76, N77, N78
- NOTE 11: Unit costs are 6056 for Resource Sponsor N61

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87 **UNCLASSIFIED** ITEM NO. 68 PAGE NO.

		BUDGE	T ITEM JUSTIFIC	ATION S	SHEET			DATE:				
			P-40					Februa	ry 2006			
APPROPRIATION/BUD						P-1 ITEM NOM						
OTHER PROCURE	MENT, NAV	Y				INTEGRATE	D COMBAT	SYSTEMS TE	ST FACILITI	IES (ICSTF's))/	
BA-2: Communicat	ion and Ele	ctronic E	quipment			DISTRIBUTE	ED ENGINEE	RING PLANT	(DEP) - 296	000		
Program Element for Co	de B Items:					Other Related I	Program Elemei	nts				
	Prior	ID									То	
	Years	Code	FY	/ 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY												
COST												
(In Millions)	\$26.6		;	\$4.6	\$4.3	\$4.3	\$4.4	\$4.6	\$4.7	\$4.9	Cont.	\$31.8
SPARES COST						\$1.4						
(In Millions)							\$1.0	\$0.8	\$1.0	\$1.1	Cont.	\$10.6

PROGRAM DESCRIPTION/JUSTIFICATION

The United States Navy has a requirement to fully test and certify computer programs for maturity and operational performance prior to delivery to the Fleet. Aegis and non-Aegis ships are certified through Platform Integration Testing (PIT). CFFC provided specific direction to develop a unified modernization process, and certify all combat system baselines for integration and interoperability as an integral step in the CNO Fleet Response Plan (FRP). Various Navy facilities, serving as Integrated Combat System Integration Test Facilities (ICSTF), conduct the required testing in support of CVN, DDG, CG, LHD, LHA(R), and LPD-17 class ships. These sites also comprise the Navy's Distributed Engineering Plant (DEP) Alliance, which performs Interoperability Assessments (IA) and Systems Engineering Events (SEE) for deploying Strike Groups. These facilities also provide combat system in-service support to respond to emergent Fleet problems. The capability tests and certifies combat system baseline in a lab based environment, which has significantly reduced the cost of corrective action and shifted the burden of problem discovery away from the operator at sea.

As existing systems experience parts obsolescence, combat systems are continually updated through planned technical refresh. As these new COTS systems are introduced, ICSTF's must maintain test beds in order to accurately replicate C5I configurations that are destined for the Fleet. In addition, new combat system architectures are under development for new ship classes such as LCS, DD(X), CVN-21, as well as new open architecture variants of legacy suites. Procurement of production representative systems is critical to ensure that testing and subsequent certification remains valid.

The basic procurement program outlined herein is directed at expanding various ICSTF's capability to support PIT. Procurement requirements are directly tied to the PIT testing schedule and establish independence between test beds allowing for parallel certification efforts. Procurements are required to build the necessary test beds and for laboratory support equipment. This budget procures lab support equipment ensuring that various ICSTF's are able to support the new tactical subsystems that use COTS equipment.

In addition, the basic program provides for equipment/upgrades for the Navy's Distributed Engineering Plant (DEP) needed to conduct Interoperability Assessment (IA) testing. The DEP consists of 15 land based sites networked to certify computer programs prior to their delivery to the Fleet. IA testing is required for all deploying Strike Groups per the Joint Fleet instruction.

All procurements will be received and installed by various ICSTF's. Major equipment is procured from but not limited to Raytheon in San Diego, CA, Lockheed Martin in ST Paul, MN, and DRS Technologies, located in Johnstown, PA. Installations are based on testing schedules.

P-1 SHOPPING LIST

CLASSIFICATION:

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PAGE NO.

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	·	DATE:
P-40 CONTINUATION		February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	•
OTHER PROCUREMENT, NAVY	INTEGRATED COMBA	T SYSTEMS TEST FACILITIES (ICSTF's)/
BA-2 Communications and Electronic Equipment	DISTRIBUTED ENGINE	ERING PLANT (DEP) - 296000
The Shipboard Electronic Systems Evaluation Facilities (SESEF) are Navy-owned and ope services to Afloat and Shore commands for the development of new or upgraded systems, to time assessment of material readiness in an operational environment. Providing program OUTBOARD/COMBAT DF/RDF, search and fire control radars, and communication system deficiencies leading to maintenance action to increase ship's material readiness at the complet Consistent with the CNO's approval for modernization of SESEFs, the basic procurement pownership costs and more efficiently support testing of current, upgraded and future complex is a support of the complex of the complex of the complex is a support of the complex of the complex is a support of the complex of the complex of the complex is a support of the complex of the complex is a support of the complex of the complex is a support of the complex of the complex is a support of the complex of the complex is a support of the complex of the complex is a support of the complex of the complex is a support of the complex is	o validate system performance following Ne n procurement management for test systens including secure voice. SESEFs have be stion of construction, availabilities, during rou program is directed at expanding the SESE	w Construction and Overhaul/Availability, and to provide real- ms support for TACAN, AIMS MK XII IFF, LINK 4A/11/16, een used effectively to detect and isolate shipboard system tine ship operations, and prior to deployment. F capabilities using COTS equipment. This will reduce total

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CLASSIFICATION:

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	WEAPONS SYS	STEM COS P-5	T ANALYS	SIS			Weapon	System						DATE: Febru	uary 2006
Other F	PRIATION/BUDGET ACTIVITY Procurement, Navy COMMUNICATION AND ELEC		EQUIPN	IENT				INTEGR	OMENCLATUI ATED CON BUTED ENC	IBAT S	YSTEMS			SY (ICST	
COST	ELEMENT OF COST	ID	TOTAL CO	ST IN TH	OUSANDS O	OF DOLLARS		FY 2005			FY 2006	1		FY 2007	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost		Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		Unit Cost	Total Cost
M8100	SURFACE SHIPS (N76) COMBAT SYSTEM EQUIPMENT	А					,		2,393			1,770			2,93
	CV/CVN Test Bed LHD/LHA(R) Test Bed								1,339 1,054			800 620			2,70
	LPD-21 to 24 Test Bed Test Bed Displays											250 100			2:
M8200	SUPPORT EQUIPMENT	Α							699			1,151			2
	Test Tools (4L42 SEATASK) Simulation								344 264			345 350			1
	Lab Upgrade Open Architecture								91			456			
M8300 M8400	CS Simulation SESEF Elect. Equip	A							780			200 847			94
/18500	DEP Equipment	A							250			200			
W861N	Equipment Installation	Α							509			155			1
	4 2446 ILIN 86		HOPPING I						4,631			4,323	CI ASSIFI		4,2

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CLASSIFICATION:

UNCLASSIFIED

		E	BUDGET ITEM JUSTIFICA	TION SHEE	Т			DATE:			
			P-40						Februa	ry 2006	
APPROPRIATION/BU	DGET ACTIVIT	Y				P-1 ITEM NOM	IENCLATURE			-	
OTHER PROCURI	EMENT, NAV	Y BA-2	2			E	MI CONTRO	L INSTRUME	NTATION LI	: 297000 82N	Λ Α
Program Element for C	Code B Items:					Other Related I	Program Eleme	nts			
	FY 2004	ID								То	
	and Prior	Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Total
QUANTITY											
COST											
(In Millions)	\$67.9		\$5.8	\$7.6	\$5.7	\$6.3	\$6.5	\$6.3	\$6.4		\$44.6
SPARES COST											
(In Millions)											

Funds will be used to procure emergency field change kits, hardware devices and sensor kits to solve Electromagnetic Interference (EMI) problems in electronic systems/equipments throughout the surface ship Navy. The fixes which include various types of filters, limiters, blankers and shielding installed by fleet support and maintenance personnel to eliminate EMI where it is causing unacceptable degradation in the operational performance of mission-essential systems. EMI Control Instrumentation will be procured for use in identifying the sources of EMI and determining the extent of EMI so that effective corrective measures can be applied. Better definition of the problems will also provide data which will be used by designers to reduce EMI problems in future systems and equipments. The instrumentation procured will include automated and special EMI test equipment (e.g. spectrum analysis, field intensity meters, AN/PSM-40 series test sets, etc.). Instrumentation, hardware and software will also be procured to upgrade the Frequency Assignment Computer Terminal Systems (FACTS) and to provide remote access capability to the Communications Area Master Station (CAMS) and other high-density users.

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CLASSIFICATION:

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	WEAPONS SYSTEM (P-5	COST AN	NALYSIS			Weapon Sy	rstem							DATE: Februa	rv 2006
Other F	PRIATION/BUDGET ACTIVITY Procurement, Navy ommunications and Electronic E	auinm	ont			ID Code		NTROL INS			11. 207000	n gama			,
BA-2 C	ommunications and Electronic E	quipin		T IN THOUS	SANDS OF DO		EIVII COI	NIKOL III.	TROWEN	TATION	LI. 297000	J OZIVIA			
COST	ELEMENT OF COST	ID Code	FY 2004 and Prior					FY 2005			FY 2006			FY 2007	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	ELECTRONICS SUPPORT														
MA004	EMI FIXES & SENSOR KITS	A	46,135						4,054			4,207			3,912
MA104	EMI CONTROL INSTRUMENTATION	А	20,512						1,746			3,408			1,798
MA107	FACTS INSTRUMENTATION	А	1,250						32						
			67,897			0			5,832			7,615			5,710

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P-1 SHOPPING LIST

CLASSIFICATION:

			BUDGE	T ITEM JUS P-	TIFICATION S 40	SHEET				DATE: FEBRUA	RY 2006
APPROPRIATION/BUDG	ET ACTIVITY				P-1 ITEM NOM	ENCLATURE					
Other Procurement,	Navy/BA-2						Items	under \$5 <mark>M (</mark> 2	98000)		
Program Element for Cod	e B Items:				Other Related F	Program Elemen	ts				
	Prior Years	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Program
QUANTITY	0										
COST (\$M)	38		\$11.6	\$19.5	\$22.5	\$41.5	\$42.5	\$48.3	\$56.9	\$73.3	\$354.5
Initial Spares (\$M)	0		\$0.2	\$0.7	\$0.9	\$2.4	\$2.8	\$2.7	\$2.1		\$11.8

The BA 2 Items under \$5M program is a consolidated budget of the following items:

ADVANCED SENSOR DISTRIBUTION SYSTEM (ASDS)

ASDS is a radar distribution system which converts naval surface and air search radar information into a standard digital format, which distributes this data to radar navigation and tactical displays throughout the platform. The ASDS SB-4229A(V)/SP radar signal distribution switchboard is designed for fast, effective switching of all naval radar video, IFF and MIL-STD-751 digital data to all combat system display consoles throughout the platform. The ASDS CV-3989(V)/SP dual signal data converter accepts standard radar positional interfaces and receives inputs from shipboard navigational sensors.

SHORE ELECTRONIC ITEMS (TECR):

The Tactical Embedded Computer Resources (TECR) reutilization program - refurbishes, reconfigures and tests TECR assets made available through decommissionings and other downsizing efforts and provides these assets to satisfy current tactical systems requirements. TECR depot and diminishing manufacturing resources capability - includes procurement of test equipment and potentially obsolete parts to maintain both organic and original equipment manufacturer depots for out-of-production equipment which will remain in the fleet well past FY 2010. Additional funds were provided in FY 99 to upgrade and test the display consoles and associated equipment on older U. S. navy ships and test sites, replacing them with emulators, AN/UYQ-70 displays and associated peripheral equipment. These displays and associated equipment would be tested to assess improvements in the man/system interfaces which control the command/control/weapons/combat systems required for the mission of these Navy surface combatants.

COMPUTER AIDED DEAD RECKONING TRACER (CADRT)

Provides automated family of plotter/tracer replacements to display navigation and all warfare tactical plots which can overlay on digital nautical charts with complete connectivity.

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PAGE NO. 1

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	FEBRUARY 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY	Items under \$5M (298000)

CALIBRATION STANDARDS:

These funds procure calibration equipment for intermediate and organizational maintenance levels. Test And Monitoring Systems (TAMS), which include test equipment and gauges, must be calibrated to ensure the equipment is operational, accurate and precise. Funds are used to procure Calibration Standards. Calibration Standards are equipments which ensure the accuracy of test equipment used to install, align, and maintain all navy weapons systems shore and afloat. IMA mechanical standards programs provide various new and replacement calibration equipment for instrument repair and calibration shops aboard tenders and shore based intermediate maintenance activities. The shipboard gage calibration program provides the organization maintenance level aboard ship with portable calibration equipment to provide calibration support in only specific areas of measurement. Integrated Condition Assessment System (ICAS) is an NDI (cots equipment) computer based system that provides real-time, on-line machinery condition monitoring and failure detection, diagnosis, trending for failure prognosis and expert troubleshooting capability. ICAS is linked through data networks to other critical ship systems, such as machinery control, damage control and bridge systems to receive necessary sensory information.

NAVY SIGNAL PROCESSORS:

Procures support and materials incident to safety and reliability modifications for AN/UYS-2A equipment; procurement of COTS hardware to support modernization/replacement of AN/UYS-2A equipment; procurement/direct support costs to support modernization activities.

RADAR SUPPORT:

AN/SPS-73(V) radar - provides replacement radar for AN/SPS-64 radar on all ship classes and replacement for AN/SPS-55 radar on various class ships.

IN SERVICE RADARS:

This program addresses Top Management Action/Top Management Issues raised by the fleet for the AN/SPS-48E 3D air search radar and the AN/SPS-49(V) 2D air search radar. Funding for the AN/SPS-48 radar will procure a course re-write to address field changes made to the radar. Funding will also be used to procure a significant upgrade of the receiver cabinet. Funding for the AN/SPS-49 radar will procure solid state modulator field change kits. This modulator will replace the current modulator which has a high failure rate and utilizes outdated glass tube technology manufactured by a single off-shore vendor. More than 50% of the electronics likely to be Unable to Procure (UTP) starting in FY06 and increasing in following years. The SPS-48E Radar Obsolescence & Availability Recovery (ROAR) effort start in FY06 to address this problem.

EQUIPMENT INSTALLATION:

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Funding is for the installation of equipment in support of the Fleet Modernization Program.

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CLASSIFICATION:

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	WEAPONS SYSTEM COST ANALYS	IS								DATE:	ARY 2006	
40000	P-5 PRIATION/BUDGET ACTIVITY				D 4 ITEM NOMENOL	ATURE/OUR IEAR				FEBRUA	AR 1 2000	
	Procurement, Navy/				P-1 ITEM NOMENCL	ATURE/SUBHEAD						
	OMMUNICATIONS & ELECTRONICS	FOUIP	MENT		Items under \$5N	I (298000)						
<u> </u>		1		COST IN THOUSAN		(200000)						
COST	ELEMENT OF COST	ID Code			FY 2005			FY 2006			FY 2007	
CODE		Code		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
DC001	RADAR SUPPORT	Α				2,861			3,106			3,574
	SHORE ELECTRONICS - TECR	A				576			0,100			0,571
	NAVY SIGNAL PROCESSORS					417			574			0
	CALIBRATION STANDARDS	_							1,586			1,065
		A		0	404	1,216			1,566			1,065
DC006		Α		8	191	1,530						
	TC-RCI-AN/BPS 15/16											
DC008												
DC009	IN SERVICE RADARS (AN/SPS-48)	Α				335			9,590	1	4,245	12,480
DC010	IN SERVICE RADARS(AN/SPS-49)	Α				1,189	12	220	2,635	10	155	1,588
DC011	Q-70 CADRT											
DC012	PERISCOPE DETECTION RADAR											
	SPAWAR INFORMATION TECHNOLO Systems - N1	GY				0			0			38
DCINS	EQUIPMENT INSTALLATION	А				3,523			1,969			3,744
						11,647			19,460			22,489

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PAGE NO. 3

	WEAPONS SYSTEM COST ANALYSIS P-5												DATE:	BRUARY 2	006
	PRIATION/BUDGET ACTIVITY				P-1 ITEM NO	MENCLATURE/S	UBHEAD								
	Procurement, Navy/ COMMUNICATIONS & ELECTRONICS EQ	UIPN	IFNT		Items und	er \$5M (29800	0)								
2,120						OF DOLLARS									
COST	ELEMENT OF COST	ID			FY 2008			FY 2009			FY 2010	0		FY 2011	
CODE		Code		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
DC001	RADAR SUPPORT- N76	Α				3,655			2,922			3,795			3,073
DC002	SHORE ELECTRONICS - TECR - N6					0			0			0			C
DC003	NAVY SIGNAL PROCESSORS - N61	Α				4			19			19			20
DC004	CALIBRATION STANDARDS - N4	Α				1,723			1,745			1,792			1,842
DC006	ASDS-N76														
DC007	TC-RCI-AN/BPS 15/16-N77														
DC008	ICAS														
DC009	IN SERVICE RADARS (AN/SPS-48)- N76	Α		6	3,733	30,990	8	3,734	32,870	7	3,733	28,890	8	3,739	31,240
DC010	IN SERVICE RADARS(AN/SPS-49)- N76	Α		15	137	2,063	10	146	1,461			20			
DC011	Q-70 CADRT-N76														
DC012	PERISCOPE DETECTION RADAR - N76														
DC013	SPAWAR INFORMATION TECHNOLOG ³ Systems - N1	Y				39			39			41			42
DCINS	EQUIPMENT INSTALLATION- N76	Α				3,061			3,472			13,771			20,657
						41,535			42,528			48,328			56,874

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PAGE NO. 3A

BUDGET PROCUREMENT H	ISTORY AND P	LANNING	EXHIBIT (P-5A)			Weapon System		A. DATE:	EBRUARY	2006
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy N/					C. P-1 ITEM N	IOMENCLATURE er \$5M			SUBHEAD	2DC
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>FY 05</u> DC006 ASDS	8	191	Washington Navy Yard		MIPR	Frontier Stillwater OK	Nov 04	Apr 05	YES	
<u>FY 06</u> DC010 AN/SPS-49	12	220	Washington Navy Yard		MIPR	Raytheon Sudberry MA.	Apr 06	Aug 06	NO	
<u>FY 07</u> DC009 AN/SPS-48	1	4245	Washington Navy Yard		wx	NSWC/PHD(VAB)	NA	Mar 09	NO	
DC010 AN/SPS-49	10	155	Washington Navy Yard		wx	NSWC/Crane	NA	TBD	NO	
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

CLASSIFICATION: UNCLASSIFIED FEBRUARY 2006 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) AN/SPS-73(V) Radar MODELS OF SYSTEMS AFFECTED: MODIFICATION TITLE: SPS-73 Installs DC001 INSTALLATION INFORMATION: Alteration Installation Team (AIT) METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEAD TIME: PRODUCTION LEAD TIME: 12 Months CONTRACT DATES: FY 2005 N/A FY 2006 N/A FY 2007 DELIVERY DATE: FY 2005 N/A FY 2006 FY 2007 (\$ in Millions) Cost: Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total Qty Qty Qty Qty Qty Qty Qty Qty Qty Qty 66 22.2 PRIOR YEARS 17.0 1.1 1.3 2.0 15 3.5 11 2.9 12 3.2 18 4.2 4.0 160.0 FY 2005 EQUIPMENT FY 2006 EQUIPMENT FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2009 EQUIPMENT FY 2010 EQUIPMENT FY 2011 EQUIPMENT TO COMPLETE INSTALLATION SCHEDULE: FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 <u>TC</u> TOTAL 3 0 5 4 3 1 2 2 0 0 2 3 3 2 3 2 2 3 3 6 5 3 1 2 66 143 Out 143 P-3A P-1 SHOPPING LIST ITEM NO. ITEM NO. 71 PAGE 5 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION. UNCLASSIFIED	CLASSIFICATION:	UNCLASSIFIED
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РЗА	INDIVIDUAL MODI	FICATION			FEBRUARY 2006
MODELS OF SYSTEM AFFECTED:	Items Under \$5M (298000)	TYPE MODIFICATION:	N/A	MODIFICATION TITLE:	AN/SPS-73(V) RADAR
DESCRIPTION/JUSTIFICATION:					50001
The AN/SPS-73(V) Surveillance and Nav	vigation radar program was funded	through Congressional Plus-ups	rom a different s	subhead until 2003. Some 82DC funding v	vas used prior to FY04 to install
systems procured with 82KG funding. F	or FY05 and out, the installation fur	nding is being used to install syste	ems previously p	rocured under 82KG funding.	

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Years			2005		2006		2007		2008		2009		<u>2010</u>		<u>/2011</u>		TC	_	TOTAL
	QTY	\$	QTY	<u>\$</u>	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	11	2.002																	11	2.002
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS				0.080		0.549		1.006		1.180									0	2.815
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER - ISEA/DAS		1.732		2.781		2.557		2.568		2.475		2.922		3.795		3.073			0	21.903
OTHER																				
OTHER								-		-										
INTERIM CONTRACTOR SUPPORT						_												_		
INSTALL COST	17	2.368	5	1.250	8	1.969	15	3.544	11	2.861	12	3.172	18	4.190	8	4.017	66	16.500	160	39.871
TOTAL PROCUREMENT		6.102		4.111		5.075		7.118		6.516		6.094		7.985		7.090				50.091

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

P3A INDIVIDUAL MODIFICATION FEBRUARY 2006

MODELS OF SYSTEM AFFECTED: RADDS SYSTEMS TYPE MODIFICATION: N/A MODIFICATION TITLE: ASDS

DESCRIPTION/JUSTIFICATION:

Asds is a radar distribution system that converts naval surface and air search radar information into a standard digital format, which distributes this data to radar navigation and tactical displays through out various platforms.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TC TOTAL QTY \$ QTY

	Prior Years			2005		2006	FY	2007		2008		/ 2009		<u>/ 2010</u>		<u>/2011</u>		TC .	1	TOTAL \$
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	32	6.100	8	1.5															40	7.630
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER - ISEA/DAS																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	23	1.980	17	2.273															40	4.253
TOTAL PROCUREMENT		8.080		3.803																11.883

CLASSIFICATION: UNCLASSIFIED P3A (Continued)			IND	DIVIDUAL M	IODIFIC	ATION (Co	ontinued)												FEB	BRUARY 2
MODELS OF SYSTEMS AFFECTED:		_R/	ADDS SYS	TEMS		_ MOD	IFICATIO	ON TITLE:		ASDS											
										DC006											
INSTALLATION INFORMATION:		Alteratio	n Installati	ion Team (A	AIT)																
METHOD OF IMPLEMENTATION:																					
ADMINISTRATIVE LEAD TIME:			_			PRODUC	TION LE	AD TIME:	_	(6 Months	3									
CONTRACT DATES:						FY 2005		Nov-	04			FY 2	006		N/A			FY 2007		N/A	
DELIVERY DATE:						FY 2005		Apr-	05			FY 2	006					FY 2007			
								(\$	in Millions)											_
Cost:	Prior	Years	FY	2005	F۱	Y 2006		FY 2007	FY	2008	F	2009	FY	2010	FY	2011	To Con	nplete	Tot	tal	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
																					İ
PRIOR YEARS	23	1.9																	23	1.9	
FY 2004 EQUIPMENT			6	0.5															6	0.5	
FY 2005 EQUIPMENT			11	1.8															11	1.8	
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
FY 2008 EQUIPMENT																					
FY 2009 EQUIPMENT																					İ
FY 2010 EQUIPMENT							1														
FY 2011 EQUIPMENT																					İ
TO COMPLETE							1														
		•							1	t .		•									ı
INSTALLATION SCHEDULE:																					
		<u>F</u>	Y 2005		FY 20	06	i	FY 2007		<u> </u>	Y 2008		FY 20	09		FY 2010		FY	2011	! [<u>TC</u>
		1 2		4 1		3 4	1	2 3	4	1 2		4 1	2	3 4	1	2 3	4	1 2		4	
	In Out		2 2	5 0 5 0	0	0 0	0	0 0	0	0 0		0 0	0 0	0 0	0	0 0	0	0 0	0	0	i II
	Out	4 6		3 0	U	0 0		<u> </u>	U	0 0	U	<u> </u>	U	U U		U U	U	0 0			
																		P-3A			

CLASSIFICATION: UNCLAS	SIFIED					
P3A	INDIVIDU	JAL MODIFICATION			FEBRUARY 2006	
MODELS OF SYSTEM AFFEC	TED: AN/SPS-49	TYPE MODIFICATION:	N/A	MODIFICATION TITLE:	AN/SPS-49 DC010	
DESCRIPTION/JUSTIFICATIO		ent Issues raised by the Fleet for the AN/SPS	49(V) 2D radar 1	The On-Deck/Off-Deck switches will be replace		in
the form of a Field Change.	anagement / tollon, rop manageme	5.11.05.050 .0.150 2, 1.15 . 1.55t .0.1 1.15 . 1.17 . 17 . 1		3 200. 3 200. 3 20 20 20	a sy a sona state medalater .	

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Years			2005		2006		2007		2008		2009		2010		<u> /2011</u>		<u>TC</u>		OTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT					12	2.635	10	1.548	15	2.063	10	1.461							47	7.707
EQUIPMENT NONRECURRING		2.166		1.189																3.355
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER - Technical Design Agent		0.350																		0.350
OTHER - ISEA Support		0.3																		0.340
OTHER - AEA Support		0.4																		0.370
OTHER- NON FMP INSTALL								0.040						0.020						
INSTALL COST							10	0.200	10	0.200	15	0.300	9	0.180					44	0.880
TOTAL PROCUREMENT		3.226		1.189		2.635		1.788		2.263		1.761		0.200						13.062

CLASSIFICATION: UNCLASSIFIED																				FEBR	UARY 200	J6
P3A (Continued)			IND	IVIDUAL	MODIFIC	CATION (Co	ontinued	1)														
MODELS OF SYSTEMS AFFECTED:		AN	N/SPS-49(V)		_ MOD	IFICATION	ON TITLE:		SPS-49 T	MA/TMI	Issue to Ins	ert Solid	d State Mod	dulator							
										DC010												
INSTALLATION INFORMATION:		Alteration	n Installati	on Tean	n (AIT)																	
METHOD OF IMPLEMENTATION:					_																	
ADMINISTRATIVE LEAD TIME:			_			PRODUC	TION LE	AD TIME:		7	Months	5										
CONTRACT DATES:						FY 2005						FY 20	006		Jan-05		_	FY 2007		Jan-06		
DELIVERY DATE:						FY 2005						FY 20	006		Aug-05		_	FY 2007		Aug-06		
									(\$ in Mi	llions)											_	
Cost:	Prior	Years	FY	2005	F	Y 2006		FY 2007	F	Y 2008	F'	Y 2009	FY	2010	FY	2011	To Cor	nplete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT							10	C	0.2										10	0.2		
FY 2007 EQUIPMENT									10	0.2									10	0.2		
FY 2008 EQUIPMENT											15	0.3							15	0.3		
FY 2009 EQUIPMENT													9	0.2					9	0.2		
FY 2010 EQUIPMENT																						
FY 2011 EQUIPMENT																						
TO COMPLETE																						
INSTALLATION SCHEDULE:				——										1	r		1					
		1 2	<u>Y 2005</u> 3	4 1	FY 2	<u>006</u> 3 4	1	FY 2007 2 3	4	1 2	2008 3	4 1	FY 20 2	3 4	1	FY 2010 2 3	4	1 2	FY 2011 3	4	TC .	TOTAL
	In	0 0		0 0		0 0	1	1 6	2	3 2	3	2 2		2 6	4	0 1	4	0 0	0	0		44
	Out	0 0	0	0 0	0	0 0	1	1 6	2	3 2	3	2 2	5	2 6	4	0 1	4	0 0	0	0		44
																		P-3A				
		P-1	SHOPPING L	IST ITEM I	NO. ITEM N	O. 71	ľ	TEM 7	' 1	PAGE	10					CLA	SSIFICA	TION: UNO		ED		

CLASSIFICATION:	UNCLASSIFIED
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РЗА	INDIVIDUAL MODIFICA	ATION			FEBRUARY 2006
MODELS OF SYSTEM AFFECTED:	AN/SPS-48E	TYPE MODIFICATION:	N/A	MODIFICATION TITLE:	AN/SPS-48E DC009
DESCRIPTION/JUSTIFICATION:					

The SPSP-48E Radar has been on the "troubled systems" list for five years, and funding was initially provided to accomplish a field change to the receiver wide band limiter to rectify performance and maintenance issues. Funds are being executed in FY04 and FY05 add these changes to schoolhouse technician training. More than 50% of the electronics likely to be Unable to Procure (UTP) starting in FY06 and increasing in following years. The SPS-48E Radar Obsolescence & Availability Recovery (ROAR) effort start in FY06 to address this problem.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Years			2005	_	2006		2007		2008		2009		2010		<u> 12011</u>		<u>TC</u>		OTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST		0.017																		0.017
INSTALLATION KITS NONRECURRING		0.230																		0.230
EQUIPMENT							1	4.245	6	22.400	8	29.870	7	26.13	8	29.9	3	12.7	30	125.295
EQUIPMENT NONRECURRING						8.450		7.095		6.440										21.985
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER - Interim Obsol. Avoidance						1.140		1.140		2.150		0.920		0.680		1.330		2.880		10.240
OTHER - Tech. Manual/Training updates		0.760		0.335																1.095
OTHER		1.500																		1.500
OTHER - NON FMP INSTALL												2.080		2.080						4.160
INSTALL COST													5	9.401	8	16.640	18	41.180	15	67.221
TOTAL PROCUREMENT		2.507		0.335		9.590		12.480		30.990		32.870		38.291		47.880		56.800		231.743
								P-1 S	HOPPING	G LIST ITEN	/ NO. 71	Page 11				CLASSI	FICA	TION: U	NCLA	SSIFIED

CLASSIFICATION: UNCLASSIFIED																						FEBR	UARY 2	2006
P3A (Continued)			INC	OIVIDUAL N	ODIFICA	ATION (Con	itinued)																	
MODELS OF SYSTEMS AFFECTED:			AN/SPS-48E			MODI	FICATIO	N TITLE:		•	48E Rada	r Obsol.	Avail.	Recove	ry									
											DC009													
INSTALLATION INFORMATION:		CNO A	vailability																					
METHOD OF IMPLEMENTATION:					_																			
ADMINISTRATIVE LEAD TIME:			_			PRODUCT	TION LE	AD TIME:			24	Months	3											
CONTRACT DATES:						FY 2005							F	Y 2006			Dec-05			FY 2007		Dec-06		
DELIVERY DATE:						FY 2005							F	Y 2006			Jan-08			FY 2007		Jan-09		
									(\$ i	n Millio	ons)												_	
Cost:	Prior	Years	FY	2005	F	Y 2006		FY 2007		FY	2008	F	Y 2009		FY	2010	FY:	2011	To Com	plete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS																								
FY 2005 EQUIPMENT																								
FY 2006 EQUIPMENT																								
FY 2007 EQUIPMENT																								
FY 2008 EQUIPMENT															5	9.40					5	10.5		
FY 2009 EQUIPMENT																	8	16.64			8	16.6		
FY 2010 EQUIPMENT																								
FY 2011 EQUIPMENT																								
TO COMPLETE																			20	41.18	33	41.18		
		•		•													•	•					•	
INSTALLATION SCHEDULE:																. 1			1				· ·	
			FY 2005 2 3	4 1	FY 20 2		1	FY 20 2		4	1 2	2008 3	4	_	Y 200 2	<u>99</u> 3 4	1	FY 2010 2 3	4	1 2	FY 2011 3	4	<u>TC</u>	TOTAL
	In	0	0 0	0 0	0	0 0	0	0	0	0	0 0	0	-		0	0 0	0	2 2	-	2 2	2	2	20	33
	Out	0	0 0	0 0	0	0 0	0	0	0	0	0 0	0	0	0	0	0 0	0	2 2	1	2 2	2	2	20	33
																				P-3A				

UNCLASSIFIED

CLASSIFICATION

BUDGET ITEM JUSTIFICA	TION SHEET		DATE						Februar	y 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC E	P-1 ITEM NOM		MMUNICATIONS						SUBHEAD 52DN	
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY										
COST (in millions)		\$14.0	\$2.6		\$0.2	\$0.3	\$28.7	\$100.2	\$5,679.2	\$5,825.2

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: HFRG, HF Tilt Mechanisms and Joint Tactical Radios System (JTRS) were transferred from BLI 3057 Comm Items Under \$5M and BLI 3215 Satellite Communications respectively to BLI 3010 Ship Tactical Communications.

High Frequency TILT MECHANISMS (HF Tilt Mechanisms) - Devices to enable vertical whip antenna to be lowered to a horizontal position during flight operations.

HIGH FREQUENCY RADIO GROUP (HFRG) BROADBAND - Will allow fully automated operation of the HF communications system. The system will reduce the number of topside antennas used, reduce electromagnetic interference and reduce manning requirements.

DMR: The Digital Modular Radio (DMR) provides improvements for fleet radio requirements in the HF, VHF, and UHF frequency band. The DMR replaces and will be interoperable and backwards compatible with legacy systems. The DMR is a digital, modular, software programmable, multi-channel, multi-function and multi-band (2MHz-2 GHz) radio system.

UNCLASSIFIED CLASSIFICATION

	COST ANALYSIS				DATE						Febru	ary 2006
APPROPRIATIO	N ACTIVITY			P-1 ITEM	NOMENC	LATURE				SUBHE/	AD.	
OP,N - BA-2 COI	MMUNICATIONS AND ELECTRONIC EQUIPMENT			BLI: 3010 S			MUNICATIO	NS		52DN		
				1			(\$H					
			PY		FY 2005			FY 2006			FY 200	7
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
DN013	HF Tilt Mechanism	Α										
DN016	HFRG Broadband	Α		2	1,035	2,070						
DN016	HFRG Broadband (HF ALE)	Α		8	25	200						
DN105	DMR Ancillary Equipment (1)	Α		7	80	561	25	80	2,000			
DN555	PRODUCTION SUPPORT HF Tilt HFRG DMR					1,767 122 667 978			514 0 0 514			
DN777	INSTALLATION FMP HF Tilt HFRG DMR Ship					9,356 9,111 121 8,990 0			49 49 0 49 0			
DN777	DSA HF Tilt HFRG DMR Ship					245 0 245 0			0 0 0 0			(
DN777	NON-FMP DMR Shore					0 0						
	Total SP	AWAR CONTROL				13,954			2,563			0

Remarks:

Equipment: 500 Watt High Frequency

UNCLASSIFIED CLASSIFICATION

A. DATE PROCUREMENT HISTORY AND PLANNING February 2006 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT BLI: 3010 SHIP TACTICAL COMMUNICATIONS 52DN CONTRACTOR RFP DATE SPECS CONTRACT DATE FY ISSUE AWARD OF FIRST QTY COST **ELEMENT OF COST** AND METHOD LOCATION UNIT AVAILABLE REVISIONS CODE DATE LOCATION & TYPE OF PCO DATE Delivery COST NOW AVAILABLE DN016 HFRG Broadband (HF ALE) 05 VIASAT, Charleston, SC FFP/O SSC CH 8 25 YES May-05 Jun-05 General Dynamics Command, Control, Communications & DN105 DMR 500Watt High Frequency Power Amplifier 05 FFP/O Scottsdale, AZ 80 YES Computer Systems May-06 May-07 7 General Dynamics Command, Control, Communications & Computer Systems DN105 DMR 500Watt High Frequency Power Amplifier 06 FFP/O Scottsdale, AZ YES May-06 Aug-07 25 80

D. REMARKS

HFRG Broadband: unit cost varies depending on ship platform

FY04 adjusted to reflect accelerated delivery schedule (FMB07 budget delivery schedule was in error)

UNCLASSIFIED

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS February 2006

COST CODE MODELS OF SYSTEMS AFFECTED: DN013

HF TILT MECHANISMS

DESCRIPTION/JUSTIFICATION: Installation on ships to allow vertical whip antennas to be lowered to a horizontal position during flight operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	PY			FY05		FY06		E)/07		E)/00		E\/00		E)/40				то			OTAL
	Qty	\$		Qty	\$	Qty	\$	FY07 Qty	\$	FY08 Qty	\$	FY09 Qty	\$	FY10 Qty	\$	FY11 Qty	\$	TC Qty	\$	Qty	S I
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring	35	4.1		Qiy	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qiy	¥	Qty	Ψ	wiy	Ψ	Qty	¥	35	4.1
Engineering Change Order Data Training Equipment Production Support Other (DSA) Interim Contractor Support	00	2.3 0.1			0.1															0.4	2.5 0.1
Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 12 EQUIP	29 29	1.8 1.8		2 2	0.1 0.1															31 31	2.0
TOTAL INSTALLATION COST		1.9			0.1																2.0
TOTAL PROCUREMENT COST		8.3			0.2													<u> </u>			8.5
METHOD OF IMPLEMENTATION:										ADMINIS	STRATIVI	E LEADT	IME:	5 mos			PRODU	CTION	LEADT	ME:	12 mos
	CONTRAC	T DATES:	FY 2004:	Jun-04			FY 2005	5:	NA		FY 2006	:	NA		FY 2007	:	NA				
	DELIVERY	DATES:	FY 2004:	Feb-05			FY 2005	5:	NA		FY 2006	:	NA		FY 2007	' :	NA				
INSTALLATION SCHEDULE:	PY	_						1	2 E\	<u>Y 06</u> 3	4	-	1	<u>FY (</u>	<u>07</u> 3	4	_	_1	2 <u>F</u>	Y 08 3	4
INPUT	31																				
OUTPUT	31																				
INSTALLATION SCHEDULE:			1	<u>FY 0</u> 2	<u>)9</u> 3	4		1	2 <u>F</u>	<u>Y 10</u> 3	4	-	1	2 <u>FY</u>	<u>11</u> 3	4	-	TC		<u>TOTAL</u> 31	
OUTPUT																				31	

Total PY inventory objective is 35 units. 29 units procured under BLI 3057. 6 procured under BLI 3010.

FY05 installation of quantity 4 cancelled due to ship early decommissioning. Install funding asset transferred to HFRG to cover installation shortfalls

UNCLASSIFIED

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS

COST CODE DN016/NU016

HIGH FREQUENCY RADIO GROUP

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION: Provides for fully automated operation of the High Frequency Communications System.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																				
	PY		FY05		FY06		FY07		FY08		FY09		FY10		FY11		TC			OTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment	36	49.8																	36	49.833
Equipment Nonrecurring - HF ALE (URC 109)		0.5																		0.500
Equipment Nonrecurring - HF ALE (VRC104)		0.6																		0.600
Equipment Nonrecurring - HF ALE (VDC 500)			8	0.2															8	0.200
ECO-Upgrade LHD 2-4 and LHD-6	2	2.0	2	2.1															4	4.023
ECO-Upgrade CV-67 and CG-61 (URC 131)	2	3.8																	2	3.792
Data																				
Training Equipment																				
Production Support		4.6		0.7																5.268
Other (DSA)		2.7		0.2																2.992
Interim Contractor Support																				
Installation of Hardware	33	46.0	13	9.0	1	0.0											1	1.800	48	56.839
PRIOR YR EQUIP	33	46.0	5	8.6													1	1.800	39	56.360
FY 05 EQUIP			8	0.4	1	0.0													9	0.479
FY 06 EQUIP																				
FY 07 EQUIP																				
FY 08 EQUIP																				
FY 09 EQUIP																				
FY 10 EQUIP																				
FY 11 EQUIP																				
TC EQUIP																				
TOTAL INSTALLATION COST		48.7		9.2		0.0		0.0		0.0		0.0		0.0		0.0		1.800		59.831
TOTAL INSTALLATION COST	—	110.0		12.2		0.0		0.0	1	0.0	+	0.0	 	0.0	 	0.0	 	1.800		124.047
METHOD OF IMPLEMENTATION:		110.0		12.2		0.0	1	0.0	ADMINISTR		ADTIME:	0.0	1	mos	·		TION I	ADTIME:	l .	3-12 mos
																				2 .200

	CONTRACT DATES: DELIVERY DATES:	FY 2004: FY 2004:	Mar-04 Sep-04	FY 2005: FY 2005:	Nov-04 Feb-05	FY 2006 FY 2006:	NA NA	FY 2007: FY 2007:	NA NA		
INSTALLATION SCHEDULE: INPUT OUTPUT	PY 38 38			1 2 9 9	<u>FY 06</u> 3 4	1 1 1	2 FY 07 3	4	1	FY 08 2 3	4
INSTALLATION SCHEDULE:	1	2 FY 09 3	4	_ 1 2	FY 10 3 4	1	2 FY 11 3	4	_	TC_	<u>TOTAL</u> 48

OUTPUT

February 2006

^{1/} The HFRG budget was previously included under BLI 3057 Comm Items Under \$5M. Total inventory objective is 36 units. 34 units procured under BLI 3057. 2 units will be procured under BLI 3010.

^{2/} The installation of the FY01 procurement of a 12 KW system was cancelled due to ship being decommissioned (LHA-3). This asset was converted into 2 HFRG (8 KW and 4 KW) systems in FY04 via an Engineering Change Order and installed on the CV-67 and CG-61.

^{3/} Wide production leadtime spread due to production variances: ECO upgrades for URC 131 six months, full HFRG systems twelve to fifteen months, ECO upgrades for URC 109 three months.

^{4/} FY05 installation of CV-67 8KW conversion system cancelled because ship is being decommissioned early.

^{5/} FY06 and FY07 installations are using FY05 and FY06 funding (as approved by CNO and PEO).

^{6/} HF ALE (VDC 500) procurement typ in FY05 of 8 – qty 7 will be installed on LHD 1-7, qty 1 will remain at OEM for integration and acceptance testing Install funding asset transferred from HF Tilt to HFRG to cover installation shortfalls

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS
February 2006

COST CODE DN105/DN777

MODELS OF SYSTEMS AFFECTEIDMR

DESCRIPTION/JUSTIFICATION: Provides four channel SATCOM terminal built to open systems architecture maximizing COTS/ND with the ability to evolve as commercial technology advances and supports future proofing.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

(PY	FY05	FY06	FY07	FY08	FY09	FY10	FY11	TC	TOTAL
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
RDT&E PROCUREMENT: Kit Quantity										
Installation Kits Installation Kits Nonrecurring										
Equipment Equipment: 500 Watt High Frequency	[36] [22.6]									
Power Amplifiers		7 0.6	25 2.0							
Equipment Nonrecurring (Racks) Engineering Nonrecurring	[58] [3.3] [1.087]									
Engineering Change Orders										
NSA CDRL Training Equipment	1.5									
Production Support	[14.9]									
Production Support 52DN Other (DSA)	2.3 [1.8]	1.0	0.5							3.8
Other (DSA) 52DN	0.4	0.0	0.0							0.4
Interim Contractor Support Installation of Hardware*	[16] [0]	0 0.0	0 0.0	0 0.000						
PRIOR YR EQUIP	[16] [0]									
PRIOR YR EQUIP 52DN FY 00 EQUIP	6 1.2									6 1.2
FY 01 EQUIP										
FY 02 EQUIP FY 03 EQUIP										
FY 04 EQUIP FY 05 EQUIP										
FY 06 EQUIP										
FY 07 EQUIP FY 08 EQUIP										
FY09 EQUIP										
FY TC EQUIP TOTAL INSTALLATION COST	[1.8]	0.0	0.0	0.000	0.0	0.0	0.0	0.0	0.0	1.5
TOTAL PROCUREMENT	[43.7]	1.5 ATIVE LEAD-TIME: 2	2.5	0.000 PRODUCTION LE	0.0	0.0 12-15 months	0.0	0.0	0.0	5.3
METHOD OF IMPLEMENTATION:										
CONTRACT DATES:	FY 2004: NA	FY 2005:	May-06		FY 2006:	May-06	FY 2007:	NA		
DELIVERY DATES:	FY 2004: NA	FY 2005:	May-07		FY 2006:	Aug-07	FY 2007:	NA		
INSTALLATION SCHEDULE:	PY		1	2 FY 06 3	4	1 <u>F</u> \	<u>7 07</u> 3 4	1	<u>FY08</u> 2 3	4
INPUT	24									
OUTPUT	23									
	FY 09		<u>FY 10</u> 2 3			FY 11				
INSTALLATION SCHEDULE:	1 2 3 4	1	2 3	4	1 2	3 4	TC	TOTAL		
INPUT								24		
OUTPUT Notes/Comments Note 1: DMR unit includes four channels p	per box.							23		

UNCLASSIFIED

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS

COST CODE DN105/DN777

MODELS OF SYSTEMS AFFECTEIDMR NON-FMP Shore Installations

DESCRIPTION/JUSTIFICATION: Provides four channel SATCOM terminal built to open systems architecture maximizing COTS/ND with the ability to evolve as commercial technology advances and supports future proofing.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions) FY05 FY06 FY07 FY08 FY09 FY10 FY11 TC TOTAL Qty Qty Qty Qty Qty Qty Qty RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring [3.9] Equipment Equipment Nonrecurring (Racks) Engineering Nonrecurring **Engineering Change Orders** NSA CDRL Training Equipment Production Support Other (DSA) 0.0 Interim Contractor Support Installation of Hardware* 1.2 0 0.0 4 1.2 4 PRIOR YR EQUIP 4 1.2 4 1.2 FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST 1.2 0.0 1.2 TOTAL PROCUREMENT [3.9] 0.0 1.2 ADMINISTRATIVE LEAD-TIME: 2 Months METHOD OF IMPLEMENTATION: PRODUCTION LEAD-TIME: 12 months CONTRACT DATES: FY 2004: FY 2005: FY 2006: NA FY 2007: NA NA NA **DELIVERY DATES:** FY 2004: NA FY 2005: NA FY 2006: NA FY 2007: NA FY 07 2 INSTALLATION SCHEDULE: PY INPUT 5 OUTPUT 5 INSTALLATION SCHEDULE: TC TOTAL **INPUT** 5 OUTPUT 5

Notes/Comments

Note 1: DMR unit includes four channels per box.

February 2006

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	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
HF Tilt mechanism	TBD	3/mo	6/mo	10/mo	30	30	360	360	420	Days
HFRG Broadband	Harris	1/mo	2/mo	3/mo	30	30	360	360	420	Days
500 Watts High Frequency PA	General Dynamics C4	3/mo	3/mo	4/mo						

Notes:

FY05 Procurement of HFRG to deliver in April 06 in support of CNO/PEO-approved FY07 installation

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	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
500 Watts High Frequency PA	General Dynamics C4	3/mo	3/mo	4/mo						

Notes:

CLASSIFICATION:

UNCLASSIFIED

		В	UDGET ITE	M JUSTIFICA	ATION SHEE	T			DATE:			
				P-	40						JANUA	RY 2006
APPROPRIATION/BU	DGET ACTIVIT	Υ		•			P-1 ITEM NOM	ENCLATURE				
OTHER PROCUR	EMENT, NA	VY/BA-2							LI: 3033 Po	rtable Radios	5	
Program Element for 0	Code B Items:						Other Related F	Program Eleme	nts			
	Prior	ID										
	Years	Code	PY	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY2010	FY2011	Total
QUANTITY												
COST												
(In Millions)						\$9.9	\$40.5	\$10.1	\$30.2	\$0.1	\$0.1	\$90.9
SPARES COST												
(In Millions)												

SECDEF, the CNO, the Information Technology IPT, and top echelons of the Navy directed compliance with the National Telecommunications Information Agency's mandate to modify current Land Mobile Radio Systems from wideband operation to narrowband operation. Additionally, Navy Land Mobile Radio Systems must be interoperable with other Federal (DoD and non-DoD), State and Local First Responsder governmental agencies. Further, the Land Mobile Radio System must be compliant with the Association for Public Safety Communications Officers (APCO) Project 25 (P-25) standards. Finally, the Land Mobile Radio System must facilitate use of the Navy Emergency Response Management System. AntiTerrorism/Force Protection doctrine emphsizes the need for an uninterruptable voice and data command and control system.

ENTRPRISE LAND MOBILE RADIO SYSTEM: This system provides the narrowband operation and interoperability mandated by SECDEF and CNO. A system consisting of a centralized regional swith (zone controller), a series of repeaters and T-1 connections, and interoperability equipments will provide communication at the local level, between installations within a region and ultimately between regions on a CONUS-wide basis. The equipment that makes up the Enterprise Land Mobile Radio System is commercially available, with two different manufacturers both providing equipment that is APCO 25 compliant. The inventory objective is a total of ten systems, one for each Naval Region in CONUS as well as CNR Hawaii. 4 of 9 CONUS Regions requiring infrastructure build outs are included in the budget years. Estimate includes installation. Unit Costs will vary because the ELMR system is tailored to the region in which it is installed. The remaining 5 CONUS Regional ELMR infrastructures (as well as subscriber units for all regions) will be procured in FY2010 and out years.

PRODUCTION ENGINEERING: Development of technical manuals, OMS, Provisioning Technical Documentation (PTD), Program Support Data (PSD) and Allowance Parts Lists (APLs); Engineering in support of design reviews: Acquisition documentation

P-1 SHOPPING LIST

ITEM NO. 73 PAGE NO. 1 CLASSIFICATION:

UNCLASSIFIED

Department of the Navy Commander Navy Installations FY 2007 President's Budget

WEAPONS SYSTEM COST ANALYSIS Weapon System N/A DATE: **JANUARY 2006** APPROPRIATION/BUDGET ACTIVITY ID Code P-1 ITEM NOMENCLATURE/SUBHEAD Other Procurement, Navy/BA-2 LI: 303300 Portable Radios TOTAL COST IN THOUSANDS OF DOLLARS COST **ELEMENT OF COST** FY 2006 FY 2007 FY 2008 FY 2009 Prior CODE Years Code Total Cost Quantity Unit Cost **Total Cost** Quantity Unit Cost **Total Cost** Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost . INFRASTRUCTURE DESIGN, HW &SW Design Service fee 12 35,000 420,000 36 35,000 1,260,000 2 35,000 70,000 14 35,000 490,000 900,000 900,000 900,000 900,000 900,000 900,000 2 1,800,000 2 1,800,000 Zone Switch 1 Switching equipment 200,000 200,000 200,000 200,000 200,000 400,000 200,000 400,000 400,000 400,000 1 400,000 400,000 2 400,000 800,000 2 400,000 800,000 System Management Hardware/Software 100 28.986 2.898.600 357 28.986 10.348.002 31 28.986 2.956.572 144 28.986 4.173.984 Number of Repeaters at site: 12 14,000 168,000 14,000 840,000 14,000 266,000 144 14,000 2,016,000 60 19 Antenna combining systems 12 10.000 120.000 61 10.000 610.000 19 10.000 190.000 63 10.000 630.000 Interoperability and interfacing equipment 5 60,000 300,000 79 60,000 4,740,000 60,000 63 60,000 3,780,000 0 Number of new towers required: 8 35.000 280.000 66 35.000 2.310.000 0 35.000 42 35.000 1.470.000 12 360,000 1,350,000 30,000 210,000 540,000 Number of consoles required: 30,000 45 30,000 2 18 30,000 613,000 613.000 4 613.000 2,452,000 613.000 613.000 6 613.000 3,678,000 OTAR data gateway multiplexing equipment 268,000 268,000 268,000 1,072,000 268,000 268,000 268,000 1,608,000 Installation setup testing software programming 6 4 270.000 270.000 6 270.000 1.620.000 1 270.000 270.000 6 270.000 1.620.000 Maintenance Agreements 9 200,000 200,000 200,000 200,000 200,000 1,800,000 Software Subscription 200,000 800,000 Subtotal Infrastructure Design, HW & SW 7,397,600 28,902,002 8,043,572 24,805,984 INFRASTRUCTURE SUPPORT Production Engineering 2,527,400 11,564,998 2,089,428 5,402,016 Subtotal Infrastructure Support 2,527,400 11,564,998 2,089,428 5,402,016 SUBTOTAL. INFRASTRUCTURE 9,925,000 40,467,000 10,133,000 30,208,000 P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 73 PAGE NO. 2

CLASSIFICATION:

UNCLASSIFIED

Department of the Navy Commander Navy Installations FY 2007 President's Budget

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	WEAPONS SYSTEM CO P-5	ST ANA	ALYSIS			Weapon System	N/A							DATE: JANI	JARY 2006
	TION/BUDGET ACTIVITY					ID Code	P-1 ITEM NON	MENCLATURE	/SUBHEAD				•		
Other Procure	ement, Navy/BA-2						LI: 303300	Portable I	Radios						
			TOTAL COST	IN THOUSAN	DS OF DOLLAR	S									
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COST	ELEMENT OF COST	ID Code	Prior Years		FY 201	0		FY 2011							
0022		-	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	I. INFRASTRUCTURE DESIGN, HW &SW														
	· · · · · · · · · · · · · · · · · · ·														
	Design Service fee														
	Zone Switch														
	Switching equipment														
	System Management Hardware/Software														
	Number of Repeaters at site:														
	Antenna combining systems														
	Interoperability and interfacing equipment														
	Number of new towers required:														
	UPS														
	Number of consoles required:														
	OTAR data gateway multiplexing equipment														
	Installation setup testing software programming														
	Maintenance Agreements														
	Software Subscription														
	Subtotal Infrastructure Design, HW & SW					0			0			0			0
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	INFRASTRUCTURE SUPPORT														
	Production Engineering					119,000			136,000						
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	Subtotal Infrastructure Support					119,000			136,000			0			0
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	SUBTOTAL, INFRASTRUCTURE					119,000			136,000			0			0
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P-1 SHOPPING LIST

ITEM NO. 73 PAGE NO. 2

CLASSIFICATION:

					DATE			February 2006	
APPROPRIATION/BUI OP,N - BA2 COMMUN			P-1 ITEM NOMEN BLI: 3050 Ship Con		on			SUBHEAD 52PQ	
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY									
COST (in millions)	\$156.9	\$198.6	\$209.1	\$320.9	\$344.4	\$320.3	\$309.5	Continuing	Continuing

Tactical Messaging (PQ065) (formerly know as Naval Modular Automated Communication System II (NAVMACS II)/Single Message Solution (SMS) (PQ065): Tactical Messaging automates and increases the speed and efficiency of handling organizational message traffic aboard ships. The program continues to satisfy the same requirements and implements products that are developed with an open system architecture and are conducive to technological upgrades. Tactical Messaging products are procured to host tactical (afloat) Defense Messaging System (DMS) and replace the older NAVMACS systems which lack the speed and capacity to handle current message traffic loads during periods of accelerated combat operations. Tactical DMS satisfies Multicommand Requirements of Operational Capability (MROC) requirements to transition to Internet Protocol (IP) based organizational messaging.

Sensitive Compartmented Information (SCI) Networks (PQ068): Sensitive Compartmented Information (SCI) Networks provides Tactical Cryptologic Systems and Intelligence Systems with protected and reliable delivery of SI/SCI data through a secure, controllable, network interface with the General Service (GENSER) Automated Digital Network System (ADNS) architecture. Specifically, SCI Networks ensures the availability of networks in defiance of hostile Information Warfare (IW). Technical, physical, and procedural security is used to control access, protect Department of Navy (DoN) information technology resources, and ensure continuous operation of the system within an accredited security posture. SCI Networks fully complies with stated network security policies and is interoperable with deployed network security capabilities. In addition, SCI Networks provides full and common network "enterprise" services for shipboard SI Local Area Networks (LANs), including, but not limited to, send mail interfaces, file transfer protocols, interactive chat, and web services.

SCI Network Operation Centers (NOCs) serve as the managed gateway between the afloat network environment and the larger shore and joint community, providing the only access to the Joint Worldwide Intelligence Communications System (JWICS) and National Security Agency (NSA) Networks. They provide Internet Service Provider (ISP)-like services, such as email store and forward, web cache, domain name service (DNS), file transfer services, and network security. The two regional SCI NOC sites, located at Norfolk and Wahiawa, are critical in the national/tactical exchange of intelligence information.

Automated Digital Network System (ADNS) (PQ069): provides routing, switching, baseband, configuration and monitoring capabilities for interconnecting Naval, Coalition and Joint enclaves worldwide. ADNS utilizes Commercial Off the Shelf/ Government Off the Shelf (COTS/GOTS) equipment and network protocols as specified by the Joint Technical Architecture. ADNS Increment I provides initial limited, Ship to Shore Internet Protocol (IP) connectivity, separation of enclaves, reuse of unused enclave bandwidth, and Ship to tactical Shore IP connectivity. ADNS Increment II provides additional capabilities of Load Balancing, Radio Frequency (RF) Restoral, Initial Quality of Service (QoS) to include application prioritization, Initial Traffic Management, and enhancements designed to maximize use of "effective" available bandwidth. ADNS Increment III will converge all Navy Tactical Voice, Video, and Data requirements into a converged IP Data stream. In addition, the Increment III architecture will be based on an IPv6 and a "Black Core" security architecture to align to the GIG in order to mesh Navy Tactical Surface, Subsurface, and Airborne platforms into a single IP environment with Gateway functions to Joint and Coalition Networks. ADNS Increment III will serve as the Navy Tactical Interface (Gateway) for IP Networking with Transformational Satellite (TSAT), Joint Tactical Radio System (JTRS), High Assurance Internet Protocol Encrypter (HAIPE), Advanced Extremely High Frequency (AEHF), and other Future DoD Transformational C4I Programs.

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET		DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	BLI: 3050 Ship Communication Auto	omation	52PQ

Fleet Network Operation Centers (NOCs) (PQ069/071): Fleet NOCs serve as the managed gateway between the afloat network environment and the larger shore and joint community, providing the only access to the Secret Internet Protocol Router Network (SIPRNET), Non-Secure Internet Protocol Router Network (NIPRNET), and Navy/Marine Corps Intranet (NMCI). They provide ISP-like services, such as email store and forward, web cache, domain name service (DNS), file transfer services, and network security. The four regional Fleet NOC sites, located at Norfolk, Wahiawa, Bahrain, and Naples, are a vital link in sensor-to-shooter information flow; the only part of the fabric for information exchange that links individual ships to any other command. Beginning in FY07, the Fleet NOC program consolidates into the Tactical Switching program (PQ070).

Tactical Switching Ashore (TSw) (PQ070): Provides the switching and bandwidth management components of high capacity interoperable communications, as the number one Fleet Commander requirement in the Navy-Wide C4 and Information Warfare (IW) Joint Mission Area (JMA) assessment. Provides for the shore segment interconnect of an end-to-end dynamic bandwidth management, Internet Protocol (IP), and Channel Access Protocol capability to deploying Battle Groups/ Amphibious Ready Groups and other support units. Automates the major shore nodes which allow network centric and lights-out operations. Provides afloat interoperability of tactical and strategic C4I circuits with Marine Corps Ground Mobile Forces (GMF). Tactical Switching (which includes GMF interoperability, Automated Network Control Center (ANCC), Automated Technical Control (ATC) and the Automated Digital Multiplexer System (ADMS)) is the key enabling mechanism for the execution of the Automated Digital Network System (ADNS) strategy which is essential to meeting the Information Technology for the 21st Century (C4) vision. Tactical Switching system capabilities allow flexible, secure and reliable communications for voice, video, and data applications for Navy terrestrial RF links and pierside connectivity.

The Tactical Switching Ashore (TSw) plan replaces selected obsolete 1970's based shore equipment with current Government and Commercial Off-The-Shelf products which comply with DoD Global Information Grid (GIG) and Teleport architectures and standards and have demonstrated interoperability with DoD and Joint systems. Tactical Switching Ashore will procure "state-of-the-shelf" products that converge circuit-based, communications to a DoD standard, integrated, and interoperable IP network. Tactical Switching Ashore will migrate selected shore sites and their terrestrial interconnections into a coherent, scalable, network-centric capability. The Tactical Switching Ashore acquisition strategy employs a two-phased approach.

Phase One: In FY06 and FY07 the Tactical Switching Ashore program modernizes existing shore equipment through the procurement, installation, and integration of Commercial Off the Shelf (COTS) and Non-Developmental Items (NDI) to support network alignment with Defense Information Service Agency (DISA) and the migration and implementation of the Global Information Grid-Bandwidth Expansion (GIG-BE) at the major Naval communication regions to include 40+ shore communication facilities. The FY06 procurement includes a basic COTS-based Network Management System (NMS) to provide situational awareness (monitoring capability) for the Navy Enterprise Network. Phase One upgrades serve as an enabler to Phase Two, which will begin implementation in FY07.

Phase Two: The Tactical Switching Ashore program procures shore equipment and capabilities in order to remove bandwidth limitations and provides reliable alternate communications paths, secure communications, and bandwidth and enterprise management. Phase 2 upgrades will increase effectiveness and reduce manpower and the overall footprint of the Navy's shore sites by implementation of the Global Network Operations and Security Center (GNOSC). This consolidates the five major shore sites into global regions with increased capability through automation, and insertion of network technologies. This Tactical Switching Ashore plan leverages the DoD investment in GIG and Teleports and integrates Naval communications with DoD communications infrastructure. It enhances performance, reliability and interoperability and simplifies the communications architectures by eliminating obsolete systems and procedures.

FY05 includes Congressional add of \$1M for SPAWAR ForceNet Integrated Data Center and \$1M for Bandwidth monitor and control.

Exhibit P-40

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET		DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE BLI: 3050 Ship Communication		SUBHEAD 52PQ

Integrated Shipboard Network Systems (ISNS) (PQ007): The Integrated Shipboard Network System (ISNS) provides Navy ships with reliable, high-speed SECRET and UNCLASSIFIED Local Area Network (LAN)s, providing the network infrastructure (switches and drops to the PC), Basic Network Information Distribution Services (BNIDS) and access to the DISN Wide Area Network (WAN) (Secure and Nonsecure Internet Protocol Router Network -SIPRNet and NIPRNet) which are used by other hosted applications or systems such as Naval Tactical Command Support System (NTCSS), Global Command and Control System - Maritime (GCCS-M), Defense Message System (DMS), Navy Standard Integrated Personnel System (NSIPS), Navy Marine Corps Portal (NMCP), Naval Mission Planning System (NAVMPS), Theater Battle Management Core Systems (TBMCS), and Tactical Tomahawk Weapons Control System (TTWCS). It enables real-time information exchange within the ship and between afloat units, Component Commanders, and Fleet Commanders and is a key factor in the implementation of the Navy's portion of Joint Vision 2020.

Submarine Local Area Network (SubLAN) (PQ007): The SubLAN program provides Navy submarines with reliable, high-speed SECRET and UNCLASSIFIED Local Area Network (LAN)s. When the SubLAN network is combined with other subsystems, it will deliver an end to end network-centric warfare capability. The SubLAN program is comprised of two increments - SubLAN 1 and SubLAN 2. SubLAN 1 provides network infrastructure including an Unclassified Wireless Local Area Network (UWLAN), servers, and the Common PC Operating System Environment (COMPOSE), which provides the server and operating system environment for other applications such as Non Tactical Data Processing System (NTDPS) and Navy/Marine Corps Portal (NMCP) to run on. SubLAN 2 provides a full complement of SIPRNET drops, SCI drops, additional switch/backbone capacity, and improved reliability upgrades to SubLAN 1.

Combined Enterprise Regional Information Exchange System - Maritime (CENTRIXS-M) (PQ007): The Combined Enterprise Regional Information Exchange System - Maritime (CENTRIXS-M) program provides Navy ships with a reliable, high-speed Local Area Network (LAN) that will provide access to the coalition (Four Eyes, Global Counter-Terrorism Task Force (GCTF), CENTRIXS J and K, Multinational Coalition Force Iraq (MCFI) and all other bilaterals) Wide Area Network (WAN). It provides real-time information exchange between afloat units, Component Commanders, numbered Fleet Commanders and Commanders LANT/PAC Fleet through the migration of existing legacy systems into the ISNS strategy, full synchronization of shipboard networks, mission and information applications and Radio/Satellite communications and shore data dissemination infrastructure, installations are necessary to ensure end-to-end capability. The CENTRIXS-M program maximizes the use of both Commercial Off the Shelf (COTS) software and hardware. Engineering and technical support is provided so that existing systems will be upgraded/modified to keep pace with the commercial community.

P-1 SHOPPING LIST - Item No

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CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET	1	DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE BLI: 3050 Ship Communication A	Automation	SUBHEAD 52PQ

Joint Network Management System (JNMS) (PQ021): JNMS is a Combatant Commander and Joint Task Force Commander joint communications planning and management system. It is a Joint program with the Army as the lead service. It provides communication planners with the capabilities to conduct high level planning (war planning); detailed planning and engineering; monitoring; control and reconfiguration; spectrum planning and management; and security of systems and networks supporting joint operations. The benefits provided by these increased capabilities include: enhanced force-level situational awareness (shared view of the network); enhanced flexibility to support the commander's intent; better utilization of scarce spectrum resources; and increased security of critical systems and networks. As an enabler for information superiority, JNMS serves as the Commander's change center for the systems and networks supporting his forces. It ensures Command, Control, Communications, Computers, and Intelligence (C4I) unity of effort, exploitation of Total Force capabilities, proper positioning of critical information, and allows for its fusion

Afloat PCs (PQ085, PQ086, PQ088): Funds procurement of Commercial Off the Shelf (COTS) Personal Computers (desktop and laptop PCs) and client software for afloat UNCLAS and SECRET enclaves. PCs constitute the infrastructure to support robust Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) and Network-Centric Warfare capabilities such as command and control functions, intelligence gathering, email and chat communications, online training, image analysis, and maintenance and personnel functions for Sailors/Marines in the afloat environment. PCs also contribute significantly to the quality of life initiatives for deployed sailors/marines by enabling real-time communications with family members. PCs are provided for amphibious ships, surface combatants, and aircraft carriers.

P-1 SHOPPING LIST - Item No

Exhibit P-40

				DATE							
	COST ANALYSIS							Feb	ruary 2006		
APPROPRIATION A				M NOMENCLA						SUBHEAD	
OP,N - BA-2 COMM	MUNICATIONS AND ELECTRONIC EQUIPMENT				nunication Autom				į;	52PQ	
			TOTAL		DUSANDS OF D	OLLAR		, 1		EV 0007	
				FY 200			FY 2000		1	FY 2007	
COST	ELEMENT OF COST	ID	QTY	UNIT	TOTAL COST	OTY	UNIT	TOTAL COST	OTY	UNIT	TOTAL COST
PQ065	ELEMENT OF COST Tactical Messaging	CODE	9	COST 757.8	6,820	QTY 24	COST 383.2	9,197	QTY 10	COST 154.4	1,544
	3				.,.			, ,			,-
PQ068	SCI Networks	Α			567			2,903			18,968
	SCI Networks Afloat		1	567.0	567	1	2,786.0	2,786	49	384.7	18,851
	SCI Networks Ashore		0	0.0	0	1	117.0	117	1	117.0	117
PQ069	ADNS	A			31,020			14,610			7,819
FQU09	ADNS Afloat	^	61	431.2	26,303	42	296.2	12,442	21	278.8	5,855
	ADNS Ashore		_	524.1			290.2			218.2	
	ADNS ASTOTE		9	524.1	4,717	9	240.9	2,168	9	210.2	1,964
PQ069/PQ071	Fleet NOC	Α	4	10.0	40	4	44.5	178	0	0.0	0
PQ070	TACTICAL SWITCHING	Α			11,947			18,272			24,221
. 4010	Tactical Switching Ashore	A			0.1,047	5	3,654.4	18,272	5	4,844.2	24,221
	Tactical Switching (ADMS Ashore)	, ,	5	2,045.8	10,229	0	0.0	0	0	0.0	0
	Tactical Switching (ANCC Ashore)		5	343.6	1,718	0	0.0	0	0	0.0	ő
	Tradition of the state of the s			0.0.0	.,		0.0	Ĭ	J	0.0	Š
PQ007	ISNS				38,614			61,281			64,279
	ISNS	A/B	34	682.2	23,195	22	1,777.2	39,098	13	3,797.8	49,371
	CENTRIXS-M	A/B	0	0.0	0	59	29.3	1,728	10	623.2	6,232
	SubLAN	A/B	13	1,186.1	15,419		1,022.8	20,455	3	2,892.0	8,676
PQ008	SPAWAR ForceNET Integrated Data Center (Issue 73288)				1,000						
PQ021	JNMS	В	2	261.0	522	0	0.0	0	0	0.0	0
PQ072	Bandwidth Monitor and Control (Issue 73289)				1,000						
	·							7.450			7.504
PQ555	Production Support				6,281			7,156			7,581
1	Tactical Messaging				340			433			370
	SCI Networks (Afloat)				27			179 766			882 357
	ADNS (Afloat)				1,543						
	ADNS (Ashore)				283			130			118
	Fleet NOC				3			10			0
	Tactical Switching (Ashore)				0			1,850			1,810
	Tactical Switching (ADMS Ashore)				767			0			0
1	Tactical Switching (ANCC Ashore)	1			669			0			0
	ISNS CENTRIVE M				1,322			2,024			2,554
	CENTRIXS-M				0			625			1,033
	SubLAN JNMS				812 515			1,077 62			457 0
PQ085	Amphibious Ship PCs				1,786			1,169			1,803
PQ086	Surface Combatants PCs				5,517			3,354			4,247
PQ088	Aircraft Carrier PCs				8,511			5,754			9,093
	Procurement Total				113,625			123,874			139,555

^{1/}Tactical Messaging, SCI Networks, ADNS and ISNS unit costs are based on average cost of all units. Variances are due to the diverse types of ship sets being procured.

^{2/} ANCC and ADMS quantities represent number of sites. Unit cost increases are a result of complete system replacement rather than replacing components.

^{3/} ISNS - FY06 Shipset unit cost increase due to additional drops, PCs, and printers necessary to meet fleet requirements as define in 2002 Drop Message.

^{4/} ADNS Ashore quantities represent number of sites.

	COST ANALYSIS							DATE		February	2006
APPROPI	RIATION ACTIVITY		P-1 ITE	M NOMENC	LATURE		SUBHEAD				
OP,N - BA	A-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT	ı	BLI: 30	50 Ship Co	mmunication Auto	omation	52PQ				
				FY20	0E		FY200	ne .		FY200	
COST		ID		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
PQ777	INSTALLATION				43,242			74,767			69,568
	FMP Install				20 202			C2 0E4			E4 4E4
	Tactical Messaging				30,303 1,550			62,951 1,553			51,451 2,181
	SCI Networks (Afloat)				1,550			479			2,101
	ADNS (Afloat)				3,915			6,309			6,441
	ISNS				19,969			34,374			21,457
	CENTRIXS-M				0			3,403			3,429
	SubLAN				4,845			16,833			15,357
	DSA Install				7,324			4,482			8,398
	Tactical Messaging				159			419			768
	SCI Networks (Afloat)				188			742			585
	ADNS (Afloat)				3,977			20			1,219
	ISNS				2,905			2,182			4,716
	CENTRIXS-M				0			759			790
	SubLAN				95			360			320
	Non-FMP Install				5,615			7,334			9,719
	SCI Networks (Ashore)				0			106			120
	ADNS (Ashore)				1,060			2,075			3,400
	Fleet NOC				13			61			O
	Tactical Switching (Ashore)				0			3,500			6,199
	Tactical Switching (ADMS Ashore)				3,338			0			C
	Tactical Switching (ANCC Ashore) JNMS				867 337			0 1,592			0
											·
	BUDGET EXHIBIT TOTAL				156,867			198,641			209,123

P-1 SHOPPING LIST ITEM NO.
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Exhibit P-5

CLASSIFICATION

A. DATE PROCUREMENT HISTORY AND PLANNING February 2006 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 52PQ BLI: 3050 Ship Communication Automation CONTRACTOR CONTRACT RFP DATE SPECS DATE COST **ELEMENT OF COST** FΥ LOCATION ISSUE **AWARD OF FIRST** QTY UNIT REVISIONS AND METHOD **AVAILABLE** CODE OF PCO **LOCATION** & TYPE DATE DATE **DELIVERY** COST NOW **AVAILABLE SPAWAR** PQ065 Tactical Messaging 05 SSC CHARLESTON WX Oct-04 Nov-04 Mar-05 757.78 YES N/A 9 06 SSC CHARLESTON WX **SPAWAR** Oct-05 Nov-05 Mar-06 24 383.21 YES N/A 07 SSC CHARLESTON WX **SPAWAR** Oct-06 Nov-06 Mar-07 10 154.40 YES N/A PQ068 SCI Networks Afloat YES 05 Various IDIQ **SPAWAR** N/A Nov-04 Feb-05 567.00 N/A 06 **SPAWAR** 2,786.00 YES Various IDIQ N/A Nov-05 Feb-06 N/A 07 **SPAWAR** Feb-07 49 384.71 YES Various IDIQ N/A Nov-06 N/A PQ068 SCI Networks Ashore 05 IDIQ **SPAWAR** 0.00 YES Various N/A N/A N/A 0 N/A 06 Various IDIQ **SPAWAR** Nov-05 Jan-06 117.00 YES N/A N/A 07 Various IDIQ **SPAWAR** N/A Nov-06 Jan-07 117.00 YES N/A PQ069 ADNS Afloat 05 Various IDIQ **SPAWAR** N/A Nov-04 Apr-05 61 431.20 YES N/A 06 **SPAWAR** 42 296.24 YES Various IDIQ N/A Dec-05 Apr-06 N/A 07 IDIQ **SPAWAR** 21 YES Various N/A Jan-07 Apr-07 278.81 N/A PQ069 ADNS Ashore 05 Various IDIQ **SPAWAR** N/A Nov-04 Apr-05 9 524.11 YES N/A 06 Various IDIQ **SPAWAR** N/A Jan-06 May-06 9 240.89 YES N/A 07 Various IDIQ **SPAWAR** N/A Jan-07 May-07 9 218.22 YES N/A PQ069 Fleet NOC SSC CH 05 WX **SPAWAR** YES Jun-03 Jan-05 Apr-05 10.00 N/A 06 Various YES IDIQ **SPAWAR** Jun-03 Jan-06 Apr-06 44.50 N/A

D. REMARKS

Notes:

DD FORM 2446, JUN 87 P-1 SHOPPING LIST Exhibit P-5A ITEM NO.

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^{1/} Tactical Messaging, SCI Networks, ADNS and ISNS unit cost are based on average cost of all units. Variances are due to the diverse types of ship sets required for various ship classes.

^{2/} Tactical Messaging - Quantity changes from PB06 attributed to changing ship avails.

									Α	. DATE		
PRO	CUREMENT HISTORY AND P	LANNIN	G								Februa	ry 2006
B. AP	PROPRIATION/BUDGET ACTIVITY					C. P-1 ITE	M NOMENC	LATURE			SUBHEAD	
OP,N - B	3A2 COMMUNICATIONS & ELECTRONIC	EQUIPMEN	I T			BLI: 3050 Shi	o Communication	n Automation			52PQ	
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
PQ070	Tactical Switching (Ashore)	06 07	Various Various	WX/FFP CPAF	SPAWAR SPAWAR	N/A N/A	Dec-05 Mar-07	Mar-06 Jun-07	5 5	3,654.40 4,844.20		N/A N/A
PQ007	ISNS	05 06 07	Various Various Various	IDIQ IDIQ IDIQ	SPAWAR SPAWAR SPAWAR	Sep-04 Sep-04 Sep-04	Nov-04 Nov-05 Nov-06	Jan-05 Jan-06 Jan-07	34 22 13	682.21 1,777.18 3,797.77		N/A N/A
PQ007	CENTRIXS-M	06 07	Various Various	IDIQ IDIQ	SPAWAR SPAWAR	N/A N/A	Feb-06 Mar-07	May-06 Jun-07	59 10	29.29 623.20		N/A N/A
PQ007	SubLAN	05 06 07	Various Various Various	WX WX WX	SPAWAR SPAWAR SPAWAR	N/A N/A N/A	Dec-04 Dec-05 Dec-06	Mar-05 Mar-06 Mar-07	13 20 3	1,186.08 1,022.75 2,892.00	YES	N/A N/A N/A
PQ007	JNMS	04 05	SAIC SAIC	Option Option	CECOM CECOM	N/A Sep-04	Dec-04 Dec-05	Apr-05 Apr-06	11 2	523.00 261.00		FY03 FY04

D. REMARKS

Note: Tactical Messaging, SCI Networks, ADNS and ISNS unit cost are based on average cost of all units. Variances are due to the diverse types of ship sets required for various ship classes.

DD FORM 2446, JUN 87 P-1 SHOPPING LIST Exhibit P-5A

ITEM NO.

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February 2006

P-3A Exhibit

MODIFICATION TITLE: Tactical Messaging COST CODE PQ065/PQ777 MODELS OF SYSTEMS AFFECTED: Tactical Messaging

The Tactical Messaging program will automate and increase the efficiency of message handling aboard ships and provide Tactical DMS capability as required by DMS Milestone III decision 1 July 2002. DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ ii	n millions)
------------------------	-------------

FINANCIAL PLAN: (\$ IN MIIIIONS)		DV	_	Y 05		Y 06		FY 07		′ 08	_	Y 09	Γ\	′ 10	FY	4.4	-	_	Tot	al.	
	Qty	<u>PY</u> \$	Qtv	<u>1 05</u> \$	Qtv F1	<u>1 06</u> \$	Qtv	\$	Qtv E1	\$	Qtv	<u>1 09</u> \$	l Qtv	<u>r 10</u> \$	Qtv	<u></u> \$	Qty	<u>C</u> \$	Tot Qty	<u>aı</u> \$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	172	76.219	9	6.820		9.197	10	1.544	45	6.462	50	7.012	61	8.662	Qiy 5	0.714	Cont.	Cont.		116.630	
Training Equipment Production Support Other (DSA) Interm Contractor Support		5.904 3.723		0.340 0.159		0.433 0.419		0.370 0.768		0.400 0.842		0.324 0.512		0.425 0.104		0.289 0.062		Cont.		8.485 6.589	
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 10 EQUIP FY 11 EQUIP FY 17 EQUIP FY 17 EQUIP	163 163	26.465 26.465	5 3 2	1.550 0.910 0.640	14 1 13	1.553 0.113 1.440	16 6 10	2.181 0.818 1.363	40	4.000	50 5 45	4.767 0.477 4.290	5 36	3.450 0.421 3.029	30 25 5	2.917 2.431 0.486	Cont.	Cont.	359 166 3 19 10 45 50 61 5	46.883 27.375 0.753 2.258 1.363 4.477 4.711 5.460 0.486 0.000	
TOTAL INSTALLATION COST		30.188		1.709		1.972		2.949		4.842		5.279		3.554		2.979		Cont.	359	53.472	
TOTAL PROCUREMENT COST		112.311		8.869		11.602		4.863		11.704		12.615		12.641		3.982		Cont.		178.587	
METHOD OF IMPLEMENTATION: AIT		RACT DATE		ADMINIS FY2004: FY2004:	TRATIVE I	Nov-03 Mar-04		1 month FY2005: FY2005:		Nov-04 Mar-05	PRODUC		FY2006: FY2006:		4 months Nov-05 Mar-06		FY2007:		Nov-06 Mar-07		
INSTALLATION SCHEDULE:	PY	_						1	2 <u>FY</u>	<u>06</u> 3	4		1	2 <u>FY</u>	<u>07</u> 3	4	_	1	2 <u>FY</u>	<u>08</u> 3	4
INPUT	168							0	4	5	5		0	5	5	6		0	10	15	15
OUTPUT	168							0	4	5	5		0	5	5	6		0	10	15	15
				E	Y 09				FY	10				<u>FY</u>	<u>11</u>						
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4		1	2	3	4	_	TC			TOTAL 1/
INPUT			0	10	20	20		0	11	15	15		0	10	10	10		Cont.			359
OUTPUT			0	10	20	20		0	11	15	15		0	10	10	10		Cont.			359

Notes/Comments

These cards are placed in a mobile environment and do not require separate installation.

ITEM NO.

(BLI 3050) 74

^{1/} Costs vary by platform and configuration.

^{2/} Total Quantity listed on this P-3A represents systems procured and installed, including refresh equipment, and is not an Inventory Objective.

^{3/} P&I delta in FY05 and FY06 is due to the procurement of (Versa Module Eurocard) VME Cards for submarines, which are installed as part of the Common Submarine Radio Room (CSRR) and Support and Test Equipment (STE).

MODIFICATION TITLE: SCI Networks (Afloat)

COST CODE PQ068 MODELS OF SYSTEMS AFFECTED:

SCI Networks Builds Two & Three / Carry On Build Two (AFLOAT)

DESCRIPTION/JUSTIFICATION: Provides Shipboard reception and transmission of multi-functional data using various data networks linking battlegroup commanders with intelligence databases.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

· · · · · · · · · · · · · · · · · · ·	<u> </u>	PY_	FY	′ 0 <u>5</u>	F	<u>/ 06</u>	<u>F</u>	Y 07	F	Y 08	<u>F</u>)	/ 0 <u>9</u>	FY	10	FY	11	I	C	Tot	al	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring	269	26.174	1	0.567	1	2.786	49	18.851	19	9.676	5	3.656	7	3.861	7	3.833	Cont.	Cont.	358	69.404	
Engineering Change Orders Data																		9	ee Note 1		
Training Equipment Production Support Other (DSA)		2.180 2.297		0.027 0.188		0.179 0.742		0.882 0.585		0.450 0.246		0.192 0.145		0.193 0.148		0.197 0.151		Cont.	ee Note 1	4.300 4.502	
Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP	238 238	15.279 15.279	1	0.024	9	0.479	35	2.586	31	2.674	8	0.662	7	0.650	7	0.650	Cont.	Cont.	336 238 1	23.004 15.279 0.024	
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP					9	0.479	1 34	0.074 2.512	15 16	1.294 1.380	3 5	0.248 0.414							10 49 19 5	0.553 3.806 1.628 0.414	
FY 10 EQUIP FY 11 EQUIP FY TC EQUIP													7	0.650	7	0.650			7 7 0	0.650 0.650 0.000	
TOTAL INSTALLATION COST TOTAL PROCUREMENT		17.576		0.212		1.221 4.186		3.171 22.904		2.920		0.807 4.655		0.798 4.852		0.801 4.831	-	Cont.	336	27.506	4
METHOD OF IMPLEMENTATION:	<u> </u>	45.930	ADMINIS	0.806 STRATIVE	LEADTIN		1 Month		PRODU	13.046 CTION LEAD	OTIME:		3 Months			4.031	1	Cont.		101.210	1
	CONTRA	ACT DATE	S:	FY2004:		Nov-03		FY2005:		Nov-04			FY2006:		Nov-05		FY2007:		Nov-06		
	DELIVER	RY DATES		FY2004:		Mar-04		FY2005:		Feb-05			FY2006:		Feb-06		FY2007:		Feb-07		
INSTALLATION SCHEDULE:	PY	_						1	<u>F</u>	<u>Y 06</u> 3	4	_	1	<u>FY</u> 2	<u>07</u> 3	4	_	1	<u>FY</u> 2	<u>08</u> 3	4
INPUT	239								3	3	3			12	12	11			11	10	10
OUTPUT	239								3	3	3			12	12	11			11	10	10
INSTALLATION SCHEDULE:			1	<u>F)</u> 2	<u>/ 09</u> 3	4		1	<u>F</u> 2	<u>Y 10</u> 3	4		1	<u>FY</u> 2	<u>11</u> 3	4		TC			TOTAL
INPUT				3	3	2			3	2	2	-		3	2	2	_	Cont.	•		336
OUTPUT				3	3	2			3	2	2			3	2	2		Cont.			336

1/ Total quantity listed on this P-3A represents systems procured and installed, including refresh equipment, and is not an inventory objective. 2/ Difference between procurement and installation quantities a result of:

P-1 SHOPPING LIST ITEM NO.

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⁻ SCI Networks has a Carry-On variant that requires no installation (FY00=24, FY01=7).

^{- 9} units procured in BLI 2611 with FY04 Q70 Congressional Add. Congressional Plus-Up for procurement only uses funds external to 3050 BLI, with each activity responsible for its own installations. All 9 units will be installed in FY06.

3/ FY07-08 Quantities and Dollars reflect Windows NT End-of-Life (EOL) funding of \$18.9M in FY07 and \$8.5M in FY08 pursuant to Issue 18610.

FY 08

0.127

0.032

0.093

0.093

FY 09

0.130

0.033

0.096

0.096

0.129

0.259

FY 10

0.135

0.034

0.098

0.098

0.132

0.267

MODIFICATION TITLE: SCI Networks (Ashore)

COST CODE PQ068

MODELS OF SYSTEMS AFFECTED: SI-COMMS - SCI Networks Build 2 and Build 3 (ASHORE)

38

38

38

3.485

0.151

2.163

0.151

CONTRACT DATES:

DELIVERY DATES:

DESCRIPTION/JUSTIFICATION: Provides shore based reception and transmission of multi-functional data using various data networks linking battle group commanders with intelligence databases.

FY 06

0.117

0.106

0.106

0.106

N/A

N/A

FY 05

0.000

0.000

0.000

0

0

0

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring **Engineering Change Orders** Data Training Equipment Production Support

Other (Shore Pre-Installation Design) Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP

FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP

TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:

METHOD OF IMPLEMENTATION:

INSTALLATION SCHEDULE:

INSTALLATION SCHEDULE:

0.000 3.636 0.000 0.223 ADMINISTRATIVE LEADTIME:

FY2004:

FY2004:

FY 09

1 Month

FY 07

0.117

0.031

0.089

0.089

0.120

0.237

FY2005:

FY2005:

0.125 0.252 PRODUCTION LEADTIME:

N/A

N/A

FY 06

FY 10

1

3 Months FY2006:

FY2006:

Nov-05

Jan-06

FY 07

1

FY 11

0.142

0.035

0.099

0.099

0.134

0.276

TC

Cont.

Cont

Cont.

Cont.

Total

44 4.253

44 0.732

38 2.163

0 0.000

0 0.000

44 2.909

0.165

0.106

0.089

0.093

0.096

0.098

0.099

5.150

FY2007: FY2007:

Cont.

Cont.

Nov-06

Jan-07

FY 08

38

PY

38

TC Cont.

Cont.

TOTAL 44

44

Notes/Comments

INPUT

OUTPUT

INPUT

OUTPUT

1/ Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective.

P-1 SHOPPING LIST ITEM NO. 74

FY 08

FY 09

FY 10

FY 11

Total

MODIFICATION TITLE: Automated Digital Network System (ADNS) COST CODE PQ069/PQ777

MODELS OF SYSTEMS AFFECTED: Automated Digital Network System (ADNS) Afloat.

DESCRIPTION/JUSTIFICATION: Automated Digital Network System (ADNS) implements IP (internet protocol) technology, and JDIICS-D compliant Integrated Network Management tools.

FY 06

FY 05

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	. 21	<u>r</u>		05		06		1 07		08		09	FY		FY			<u>.</u>	100		in .
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits																					
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	295	77.448	61	26.303	42	12.442	21	5.855	43	16.346	39	16.035	23	12.780	39	18.048	Cont.	Cont.	0 0 0	185.257 0.000 0.000 0.000	
Training Equipment Production Support Other (DSA)		12.968 7.423		1.543 3.977		0.766 0.020		0.357 1.219		0.961 2.202		0.950 2.244		0.739 1.953		1.085 1.021		Cont.	0 0 0	0.000 19.369 20.059	
Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP		66.215 66.215	30 8	3.915 1.047	58	6.309	36	6.441	36	9.776	34	9.785	34	13.600	39	16.001	Cont.	Cont.	0 549 290	0.000 132.042 67.262	
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP	202	00.215	22	2.868	39 19	4.242 2.067	23 13	4.115 2.326	8 28	2.173 7.603	15	4.313							61 42 21 43	7.110 6.182 4.499 11.916	
FY 09 EQUIP FY 10 EQUIP FY11 EQUIP FY TC EQUIP											19	5.472	20 14	8.000 5.600	9 30	3.600 12.401	Cont.		39 23 30 0	13.472 9.200 12.401 0.000	
TOTAL INSTALLATION COST		73.638		7.892		6.329		7.660		11.978		12.029		15.553		17.022		Cont.		152.101	
TOTAL PROCUREMENT COST		164.054		35.738		19.537		13.872		29.285		29.014		29.072		36.155		Cont.		356.727	
METHOD OF IMPLEMENTATION: AIT	CONTRAC	T DATES:		ADMINIST	TRATIVE	Dec-03	i:	1 month FY2005:		Nov-04	PRODUC	CTION LE	ADTIME: FY2006:	;	3-4 months Dec-05		FY2007:		Jan-07		
	DELIVERY	DATES:		FY2004:		Mar-04		FY2005:		Apr-05			FY2006:		Apr-06		FY2007:		Apr-07		
INSTALLATION SCHEDULE:	PY							1	2 2	3	4	-	1	2 <u>FY</u>	<u>07</u> 3	4		1	<u>FY (</u>) <u>8</u> 3	4
INPUT	312							19	20	9	10		11	12	6	7		8	9	9	10
OUTPUT	312							19	20	9	10		11	12	6	7		8	9	9	10
INSTALLATION SCHEDULE:		_	1	2	FY 09 3	4		1	<u>FY</u> 2	10 3	4	-	1	<u>FY</u> 2	1 <u>1</u> 3	4		TC			TOTAL
INPUT			7	8	9	10		10	10	7	7		9	10	10	10		Cont.			549
OUTPUT			7	8	9	10		10	10	7	7		9	10	10	10		Cont.			549

FY 07

1/Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective. Program Continues Beyond FYDP.

P-1 SHOPPING LIST ITEM NO. 74

MODIFICATION TITLE: Automated Digital Network System (ADNS). 1/

COST CODE PQ0069/PQ776

MODELS OF SYSTEMS AFFECTED: Automated Digital Network System (ADNS) Ashore / Network Operations Center (NOC).

DESCRIPTION/JUSTIFICATION: Automated Digital Network System (ADNS) implements IP (internet protocol) technology, and JDIICS-D compliant Integrated Network Management tools. It adds SCI ADNS Architecture, Integrated Network Management

Architecture, and supports legacy system programs. FY02 and prior includes Fleet Network Operations Centers (NOCs) Ashore.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

		<u>P</u>	<u>Y</u>	<u>F</u>	Y 05	F	<u>/ 06</u>	<u> </u>	Y 07	F	/ 08	F	Y 09	FY	<u>′ 10</u>	FY	<u>11</u>	TC	<u>:</u>	Total		
	1	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits																						
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment		36	25.928	9	4.717	9	2.168	9	1.964	2	16.280	2	3.775	2	0.728	2	4.013	Cont.	Cont.	71 0 0 0 0	59.6 0.0 0.0 0.0 0.0	
Production Support Other (Shore Pre-Installation Design) Interm Contractor Support			0.426		0.283		0.130 0.075		0.118 0.200		0.977 0.400		0.227 0.100		0.044 0.100		0.241 0.100			0 0	2.4 1.0 0.0	
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP		36 36	10.163 10.163	9	1.060	9	2.000	9	3.200	2	2.007	2	6.748	2	0.802	2	0.611	Cont.	Cont.	71 36 9 9	26.6 10.2 1.1 2.0	
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP								9	3.200	2	2.007	2	6.748	2	0.802	2	0.611			9 2 2 2 2	3.2 2.0 6.7 0.8 0.6	
FY TC EQUIP TOTAL INSTALLATION COST	-		10.163		1.060		2.075		3.400		2.407		6.848		0.902		0.711		Cont.	71	0.0 27.6	
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST	F		36.517		6.060		4.373		5.482		19.664		10.850		1.674		4.965		Cont.	/1	89.6	
METHOD OF IMPLEMENTATION: AIT	L		30.317		ADMINISTI	DATIVE I			1 month			DBODIIC	TION LEAD	TIME:		3-4 months	4.900		Cont.		09.0	
WETHOD OF IMPLEMENTATION. AT					ADMINION	VATIVE L	EADTINE.		1 IIIOIIII			FRODUC	TION LEAL	JIIIVIE.		3-4 1110111115						
	CONTR	RACT DA	TES:		FY2004:		Nov-03		FY2005:		Nov-04			FY2006:		Jan-06		FY2007:		Jan-07		
	DELIV	'ERY DA	TES:		FY2004:		Apr-04		FY2005:		Apr-05			FY2006:		May-06		FY2007:		May-07		
INSTALLATION SCHEDULE:		PY							1	<u>FY</u> 2	<u>06</u> 3	4		1	<u> </u>	<u>Y 07</u> 3	4		1	<u>FY 0</u>	3	4
INPUT	_	45									9					9		-			2	
OUTPUT		45										9					9					2
INSTALLATION SCHEDULE:			-	1	<u>FY</u> 2	<u>09</u> 3	4		1	<u>FY</u> 2	<u>10</u> 3	4		1	<u>!</u> 2	FY 11 3	4	_	TC			<u>TOTAL</u>
INPUT						2					2					2			Cont.			71
OUTPUT							2					2					2		Cont.			71

Notes/Comments

^{1/} Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective. Program Continues Beyond FYDP.

^{2/} Quantities represent number of sites.

^{3/} Site Consolidation in FY08 from 9 to 2. Significant FY08 Shore OPN-P&I costs are associated with the purchase and integration of a Completely Redesigned and Functionally upgraded Global Shore Architecture to support ADNS Increment III.

FY 08

FY 09

FY 10

FY 11

TC

Total

MODIFICATION TITLE: Network Operations Center (NOC) Afloat shore sites.

COST CODE PQ0069/PQ071/PQ777

MODELS OF SYSTEMS AFFECTED: Network Operations Center (NOC) Afloat shore sites.

PY

DESCRIPTION/JUSTIFICATION: The Fleet Network Operations Centers (NOCs) function as Internet Service Providers (ISP) for naval affoat operating forces worldwide.

FY 05

The four regional NOCs are located at Wahiawa, Hawaii; Norfolk, Virginia; Naples, Italy; and Bahrain.

FY 06

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	. <u>Pr</u>	<u>r</u> .	FY	05		r 06	_ <u>F</u>	Y U/	. <u>F</u>	1 08	<u> </u>	1 09	FY	10	FY	11	1	<u>C</u>	100	<u>u</u> .	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment	8	3.895	4	0.040	4	0.178	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0.0	0.0	16	4.113	
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Production Support		0.148		0.003		0.010		0.000		0.000		0.000		0.000		0.000		0.0	0	0.161	
Other (Shore Pre-Installation Design)																					
Interm Contractor Support		4 445		0.040		0.004		0.000		0.000		0.000	•	0.000	•	0.000	0	0	40	4.540	
Installation of Hardware* PRIOR YR EQUIP	8	1.445	4	0.013	4	0.061	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	Cont.	Cont.	16	1.519	
FY 05 EQUIP	8	1.445	4	0.013															8	1.445 0.013	
FY 06 EQUIP			4	0.013	4	0.061													4	0.013	
FY 07 EQUIP					4	0.061													0	0.000	
FY 08 EQUIP																			0	0.000	
FY 09 EQUIP																			0	0.000	
FY 10 EQUIP																			0	0.000	
FY 11 EQUIP																			0	0.000	
FY TC EQUIP																			0	0.000	
TOTAL INSTALLATION COST		1.445		0.013		0.061		0.000		0.000		0.000		0.000		0.000		Cont.	16	1.519	
TOTAL PROCUREMENT COST		5.488		0.056		0.249		0.000		0.000		0.000		0.000		0.000		Cont.		5.793	
METHOD OF IMPLEMENTATION: AIT					TRATIVE	LEADTIM	IE:	3 months	l		PRODUC	CTION LEA	ADTIME:		3-4 mon						
	CONTRAC	CT DATE:	S:	FY2004:		Oct-03		FY2005:		Jan-05			FY2006:		Jan-06	6					
	DELIVERY	Y DATES	:	FY2004:		Jan-04		FY2005:		Apr-05			FY2006:		Apr-06	6					
										•					·						
									F	Y 06				FY	07				FY	08	
INSTALLATION SCHEDULE:	PY							1	2	3	4	_	1	2	3	4		1	2	3	4
INPUT	12									3	1										
OUTPUT	12										3		1								
				EV	09				-	Y 10				FY	11						
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4		1	2	3	4		TC			TOTAL
INGTALLATION GOTTEBOLE.		-					-	<u>'</u>		<u> </u>		-				-					TOTAL
INPUT																		Cont.			16
																		Oon.			10
OUTPUT																		Cont.			16

FY 07

Notes/Comments

P-1 SHOPPING LIST

ITEM NO. 74

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^{1/} Quantities reflect upgrades at each of the four sites to maintain connectivity and compatability with respect to the current ISNS afloat networks

^{2/} NOCs were previously rolled-up within the ADNS Ashore program within PQ069

^{3/} Beginning in FY07, the Fleet NOC program will be consolidated into the Tactical Switching program (PQ070).

MODIFICATION TITLE: Tactical Switching
COST CODE PQ070/PQ777
MODELS OF SYSTEMS AFFECTED: Tactical Switching Ashore

DESCRIPTION/JUSTIFICATION: Tactical Switching Ashore has been structured to support the migration of the shore sites and their terrestrial interconnections into a coherent, scalable, network-centric capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring	
Equipment - Phase One	
Equipment - Phase Two	
Equipment Nonrecurring	
Engineering Change Orders	
Data	
Training Equipment	
Production Support	
Other (Shore Pre-Installation Design) /4	
Interm Contractor Support Installation of Hardware*	
PRIOR YR EQUIP	
FY 05 EQUIP	
FY 06 EQUIP	
FY 07 EQUIP	
FY 08 EQUIP	
FY 09 EQUIP	
FY 10 EQUIP	
FY11 EQUIP	
FY TC EQUIP	
TOTAL INSTALLATION COST	
TOTAL PROCUREMENT COST	
METHOD OF IMPLEMENTATION:	AIT

	Qty	<u>⊃Y</u> \$ I	Qty	<u>Y 05</u> \$	<u>FY</u> Qty	<u>′ 06</u> \$	<u>F\</u> Qty	<u>/ 07</u> \$	<u>F\</u> Qty	<u>′ 08</u> \$	Qty	Y 09 \$	<u>FY</u> Qty	<u>10</u> \$	FY 1 Qty	<u>1</u> \$	Qty	<u>2</u> \$	<u>Tota</u> Qty	! \$ I	
	0	0.000 0.000	0	0.000 0.000	5	18.272 0.000	5	10.504 13.717	5	25.407	5	25.454	5	20.565	5	17.568	Cont.	Cont.		28.776 (02.711 (
	0		U		U		5		5		5		5		5		Cont.			0.000 0.000 0.000 0.000	(Note 1)
esign) /4		0.000		0.000		1.850 0.000		1.810 1.017		1.725 1.006		1.715 0.794		1.398 0.709		1.416 0.750		Cont.	0 0	9.914 4.276	
					_		-		-		_		_		-		0			0.000	(NI=4= 4)
	0	0.000 0.000	0	0.000	5	3.500	5	5.182	5	6.770	5	6.603	5	5.143	5	4.516	Cont.	Cont.	0	31.714 0.000	(Note 1)
			0	0.000	5	3.500													0 5	0.000 3.500	
							5	5.182	5	6.770									5 5	5.182 6.770	
											5	6.603	5	5.143					5 5	6.603 5.143	
															5	4.516	Cont.	Cont.	5 0	4.516 0.000	
		0.000		0.000		3.500		6.199		7.776		7.397		5.852		5.266	Cont.	Cont.		35.990	
ST.		0.000		0.000		23.622		32.230		34.908		34.566		27.815		24.250		Cont.		77.391	
N: AIT				ADMINIST	RATIVE L	EADTIME	:	3-6 mont	าร		PRODUC	CTION LEA	DTIME:	1	I-6 months						
	CONTRA	CT DATES:		FY2004:					FY2005:				FY2006:		Dec-05		FY2007:		Mar-07		
	DELIVER	Y DATES:		FY2004:					FY2005:				FY2006:		Mar-06		FY2007:		Jun-07		
	PY							1	<u>F\</u> 2	<u>′ 06</u> 3	4		1	<u>FY</u>	<u>07</u> 3	4		1	<u>FY 0</u>	<u>8</u> 3	4
	0									5		-			5					5	
										3	_				3	_				3	_
	0										5					5					5
		. -	1	2	FY 09 3	4		1	<u>F\</u> 2	<u>′ 10</u> 3	4	_	1	<u>FY</u> 2	<u>11</u> 3	4		TC			<u>TOTAL</u>
					5					5					5			Cont.			Cont.
						5					5					5		Cont.			Cont.

Notes/Comments

INSTALLATION SCHEDULE:

INSTALLATION SCHEDULE:

INPUT OUTPUT

INPUT

Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMS LANT), Naval Computer & Telecommunications Area Master Station Central Europe(NCTAMS EURCENT),

Naval Computer & Telecommunications Station Bahrain (NCTS Bahrain), and Naval Computer & Telecommunications Station San Diego (NCTS San Diego) with a total of 40+ shore communication activities spanning the 5 sites. When Phase 2 upgrades are implemented, the major shore sites will consolidate into Global Network Operations and Security Centers by FY11.

74

^{1/} Phase One quantities represent 5 major shore sites (Naval Computer and Telecommunications Area Master Station Pacific (NCTAMS PAC),

^{2/} Total Quantity listed on this P-3A represent site upgrades, including refresh equipment, and is not an Inventory Objective.

^{3/} Unit Costs are based on an average cost per facility

^{4/} FY07: Budget fund pre-installation design in support of Following year installs

^{5/} Beginning in FY07, the Fleet NOC program (PQ069) consolidates into the Tactical Switching program.

MODIFICATION TITLE: Tactical Switching 1/
COST CODE PQ070/PQ776

MODELS OF SYSTEMS AFFECTED: Automated Digital Multiplexer System (ADMS) - Ashore

DESCRIPTION/JUSTIFICATION: Automated Network management capability which is fully compatible with switching technologies and in compliance with national and international standards.

Quantities reflect the units at various sites within the following areas of coverage: Med, Lant, Eastpac, and Westpac. Costs vary by site size, requirements and configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ III Millions)		PY	F	Y 05	F\	Y 06	F	Y 07	ΕV	08	ΕV	7 09	FY	10	FY	′ 11	1	rc	То	tal	
	Qty	<u></u>	Qty	\$	Qty	<u> </u>	Qty	\$	Qty	\$	Qty	\$	Qty	<u></u> \$	Qty	<u></u> \$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits				•		•				•	,					·				·	
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	103	18.109	5	10.229	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	Cont.	Cont.	108 0 0	28.338 0.000 0.000 0.000	
Training Equipment Production Support Other (Shore Pre-Installation Design) Interm Contractor Support		0.571		0.767		0.000		0.000		0.000		0.000		0.000		0.000		Cont.	0 0 0	0.000 1.338 0.000 0.000	
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP	102 102	8.894 8.894	5 5	3.338 3.338	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	Cont.	Cont.	107 102 5	12.232 8.894 3.338	
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP					0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0 0 0 0 0	0.000 0.000 0.000 0.000 0.000 0.000	
TOTAL INSTALLATION COST		8.894		3.338		0.000		0.000		0.000		0.000		0.000		0.000		Cont.	107	12.232	
TOTAL PROCUREMENT COST		27.574		14.334		0.000		0.000		0.000		0.000		0.000		0.000		Cont.		41.908	<u> </u>
METHOD OF IMPLEMENTATION: AIT				ADMINIS	STRATIVE	LEADTIM	E:	1 month			PRODU	CTION LE	ADTIME:		3 months						
	CONTR	RACT DATE	ES:	FY2004:		Dec-03		FY2005:		Dec-04			FY2006:				FY2007:				
	DELIVE	RY DATES	3:	FY2004:		Mar-04		FY2005:		Mar-05			FY2006:				FY2007:				
INSTALLATION SCHEDULE:	PY	_						1	<u>F)</u> 2	<u>' 06</u> 3	4	=	1	<u>FY</u> 2	<u>' 07</u> 3	4	_	1	<u>FY</u> 2	3	4
INPUT	107																				
OUTPUT	107																				
INSTALLATION SCHEDULE:			1	<u>F</u> `	<u>Y 09</u> 3	4		1	<u>F)</u> 2	<u>′ 10</u> 3	4		1	<u>FY</u> 2	<u>′ 11</u> 3	4		TC			тот
							-			-	-	_	-		-		_				
INPUT																		Cont.			10
OUTPUT																		Cont.			10

Notes/Comments

3/ One procurement in FY02 is a training unit; thus it does not require installation dollars.

P-1 SHOPPING LIST ITEM NO.

74

16 of 23

^{1/} There are 5 major nodes (Hawaii, San Diego, Norfolk, Naples, and Bahrain) which are continually revisited to satisfy new fleet requirements. XQQQJ SURYQ-HOXISRURG DEVERDOZ LIFIKIQU \$ VKRUH

MODIFICATION TITLE: Tactical Switching 1/ PQ070/PQ777 COST CODE

MODELS OF SYSTEMS AFFECTED: Automated Network Control Center (ANCC)

DESCRIPTION/JUSTIFICATION: Modifications to operational ADNS/ANCC/ATCs to maintain current technology, modernization of manual patch and test facilities.

Quantities reflect the following five communication nodes: Mediterranean (Med), Atlantic (Lant), Eastern Pacific (Eastpac), Western Pacific (Westpac)

and Central Europe (Eurcent). Costs vary by site requirements and configuration.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)		D) (-	V 05	_		_	V 07	_		_		_		_		_				
	Qty	<u>PY</u> \$	Qtv	Y 05 \$	Qtv	<u>/ 06</u> \$	Qtv	<u>Y 07</u> \$	Qtv	<u>/ 08</u> \$	Qtv	<u>Y 09</u> \$	Qty	<u>′ 10</u> \$	Qty	<u>Y 11</u> \$	I Qtv	<u>C</u> \$	<u>Tota</u> Qtv	<u>ll</u> \$	ı
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty		Qty	\$	Qty		Qty	\$	Qty	,	Qty	\$	Qiy	Đ.	Qty		Qty		Qty	<u> </u>	
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	21	25.423	5	1.718	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	Cont.	Cont.	26 0 0	0.000 0.000 0.000	
Training Equipment Production Support Other (Shore Pre-Installation Design) Interm Contractor Support		1.723		0.669		0.000		0.000		0.000		0.000		0.000		0.000		Cont. Cont.	0 0 0	0.000	
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP	21 21	5.517 5.517	5 5	0.867 0.867	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	Cont.	Cont.	26 21 5 0	0.000	
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 17 EQUIP FY TC EQUIP							0	0.000	0	0.000	0	0.000	0	0.000	0	0.000			0 0 0 0	0.000	
TOTAL INSTALLATION COST		5.517		0.867		0.000		0.000		0.000		0.000		0.000		0.000		Cont.	26	6.384	
TOTAL PROCUREMENT COST		32.663		3.254		0.000		0.000		0.000		0.000		0.000		0.000		Cont.		35.917	
METHOD OF IMPLEMENTATION: AIT				ADMINIS	TRATIVE	LEADTIN	IE:	1 month			PRODU	CTION LE	ADTIME:		3-4 mont	hs					_
		ACT DATE		FY2004:		Feb-04		FY2005:		Feb-05			FY2006:				FY2007:				
	DELIVE	RY DATES	i:	FY2004:		Jun-04		FY2005:		Jun-05			FY2006:				FY2007:				
INSTALLATION SCHEDULE:	PY							1	2 2	<u>/ 06</u> 3	4	_	1	<u>FY</u> 2	<u>' 07</u> 3	4	_	1	<u>FY 0</u> 2	<u>)8</u> 3	4
INPUT	26																				
OUTPUT	21							5													
INSTALLATION SCHEDULE:			1	<u>FY</u> 2	3	4		1	<u>F</u>	<u>/ 10</u> 3	4	_	1	<u>FY</u> 2	<u>′ 11</u> 3	4	_	TC			TOTAL 2/
INPUT																		Cont.			26
OUTPUT																		Con.t			26

Notes/Comments

P-1 SHOPPING LIST ITEM NO. 74

^{1/} Quantity is representative of the number of communication nodes visited, not the total number of visits to each site. Unit cost varies depending on site and amount of work done at each site.

^{2/} There is no defined ANCC Inventory Objective. The ANCC Strategy is a continual expansion of switching capabilities at 5 major communication nodes to meet the afloat termination requirements. XQQLQJ SURYLQHGARLQFOXQHVXSSRURIO DFWFD60Z LARKLQJ \$VKRUH

MODIFICATION TITLE:

ISNS

COST CODE

PQ007/PQ777

MODELS OF SYSTEMS AFFECTED:

Integrated Shipboard Network System (ISNS)

DESCRIPTION/JUSTIFICATION: Provides modern, centrally managed, network systems to replace aging LAN systems for Battle Group (BG) and non-BG ships and embarking Marine Corps units.

Application subsystems include/financial/inventory management, organizational and surface maintenance management, and administrative information systems support.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

		<u>PY</u>	<u>F</u>)	<u>/ 05</u>	F)	Y 06	F'	<u>Y 07</u>	F'	Y 08	. <u>E</u>	Y 09	<u>F</u>	Y 10	<u>FY</u>	<u>′ 11</u>	<u>T</u>	C	To	tal	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	346	240.827	34	23.195	22	39.098	13	49.371	48	78.117	35	73.856	36	88.912	60	108.350	Cont.	Cont.	594	701.726	
Training Equipment Production Support Other (DSA) Interm Contractor Support		12.994 30.104		1.322 2.905		2.024 2.182		2.554 4.716		3.953 7.182		3.917 5.894		4.481 3.776		5.957 2.626		Cont.	0	37.202 59.385	
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP	320 320	225.312 225.312	27 8 19	19.969 5.917 14.052	42 33 9	34.374 27.008 7.366	22	21.457 12.679	43	70.679	41	105.987	34	82.256	65	57.942		Cont.	594 328 52 22	617.976 231.229 41.060 20.045	
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP							9	8.778	4 39	6.575 64.104	9 32	23.265 82.722	3 31	7.258 74.998	5 60	4.457 53.485			13 48 35 36 60	15.353 87.369 89.980 79.455 53.485	
FY TC EQUIP		255.416		22.874		36.556		26.173		77.861		111.881		86.032		60.568	Cont.	Cont.	0 594	0.000 677.361	
TOTAL INSTALLATION COST																		Cont.			
TOTAL PROCUREMENT COST		509.237	l	47.391	TD 4 TU /F	77.678	_	78.098		159.931	DDODII	189.654 CTION LEAD	T11.45	179.425		174.875		Cont.		1416.289	
METHOD OF IMPLEMENTATION: AIT				ADMINIS	IKATIVE	LEADTIM	E:	2 months			PRODUC	JION LEAL	TIME:		2 months						
	CONTRA	ACT DATES	S:	FY2004:		Nov-03		FY2005:		Nov-04			FY2006:		Nov-05		FY2007:		Nov-06		
	DELIVE	RY DATES:		FY2004:		Jan-04		FY2005:		Jan-05			FY2006:		Jan-06		FY2007:		Jan-07		
										<u>/ 06</u>				FY					FY		
INSTALLATION SCHEDULE:	PY	_						1	2	3	4	-	1	2	3	4		11	2	3	4
INPUT	347							12	12	10	8		7	6	6	3		4	14	14	11
OUTPUT	347							8	12	12	10		3	6	6	7		4	14	14	11
				FY	09					<u>/ 10</u>				<u>FY</u>							
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	-	1	2	3	4		TC	•		TOTAL
INPUT			11	11	10	9		11	11	9	3		15	20	20	10		Cont.			594
OUTPUT			9	10	11	11		3	11	11	9		4	20	20	21		Cont.			594

Notes/Comments

P-3A Exhibit

February 2006

^{1/} Total Quantity listed on this FY06 P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective.

^{2/} Carryover Quantity in FY05 is inclusive of 18 Windows NT EOL systems procured with prior year funding.

MODIFICATION TITLE: CENTRIXS-M COST CODE PQ007/PQ777

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION: Combined Enterprise Regional Information Exchange System - Maritime (CENTRIXS-M): Program provides Navy ships with a reliable, high-speed Local Area Network (LAN) that will provide access to the coalition Wide Area Network (WAN). The CENTRIXS-M program maximizes the use of both COTS software and hardware resulting in dependence on commercial support. Engineering and technical support is provided so that existing systems will be upgraded/modified to keep pace with the commercial community.

February 2006

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)		PY	F'	Y 05	F	′ 06	F	Y 07	F	7 08	F	Y 09	F`	<u>Y 10</u>	FY	11	Т	<u>.c</u>	Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Equipment Equipment Equipment Nonrecurring Engineering Change Orders Data	0	0.0	0	0.000	59	1.728	10	6.232	13	7.663	9	6.692	12	6.230	6	4.257	Cont.	Cont.	109 0 0	32.802 0.000 0.000	
Training Equipment Production Support		0.000		0.000		0.625		1.033		1.074		1.075		1.093		0.662		Cont.	0	5.562	
Other (DSA)		0.000		0.000		0.759		0.790		0.937		0.725		0.825		0.460		Cont.	0	4.496	
Interm Contractor Support																					
Installation of Hardware*	0	0.000	0	0.000	139	3.403	10	3.429	13	4.068	9	3.147	12	3.582	6	1.996	Cont.	Cont.	189	19.625	
PRIOR YR EQUIP FY 05 EQUIP	0	0.000				0.470													0	0.000	
FY 05 EQUIP FY 06 EQUIP			0	0.000	80 59	2.173 1.230													80 59	2.173 1.230	
FY 07 EQUIP							10	3.429											10	3.429	
FY 08 EQUIP									13	4.068									13	4.068	
FY 09 EQUIP											9	3.147							9	3.147	
FY 10 EQUIP FY 11 EQUIP													12	3.582	6	1.996			12 6	3.582 1.996	
FY TC EQUIP															0	1.990	Cont.	Cont.	0	0.000	
TOTAL INSTALLATION COST		0.000		0.000		4.162		4.219		5.005		3.872		4.407		2.456	OOH.	Cont.	189	24.121	
TOTAL PROCUREMENT COST		0.000		0.000		6.515		11.484		13.742		11.639		11.730		7.375		Cont.		62.485	
METHOD OF IMPLEMENTATION: AIT				ADMINIS	STRATIVE	LEADTIME	E:	2 months			PRODUC	TION LEAD	TIME:		3 months						
	CONTRA	ACT DATES	:					FY2005:					FY2006:		Feb-06		FY2007:		Mar-07		
	DELIVER	RY DATES:						FY2005:					FY2006:		May-06		FY2007:		Jun-07		
									<u>FY</u>	<u>′ 06</u>				<u>FY</u>	07				FY 0	8	
INSTALLATION SCHEDULE:	PY	-						1	2	3	4	-	1	2	3	4	=	1	2	3	4
INPUT	0							21	33	38	47		0	0	5	5		4	3	3	3
OUTPUT	0							21	33	38	47		0	0	5	5		4	3	3	3
				F	Y 09				FY	<u>′ 10</u>				FY	<u>' 11</u>						
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	<u>-</u>	1	2	3	4	-	TC			TOTAL
INPUT			2	3	2	2		3	3	3	3		1	1	2	2		Cont.			189
OUTPUT			2	3	2	2		3	3	3	3		1	1	2	2		Cont.			189

Notes/Comments

FY06: Reflects Windows NT EOL Upgrade; lead time 6-8 weeks. 80 additional systems procured under Congressional action Q70 in FY05 to be installed in FY06.

FY07-Out: Reflects CENTRIXS BLK II and CENTRIXS Inc I which will obtain a Milestone C decision 2nd Qtr FY 07.

P-1 SHOPPING LIST ITEM NO.

74

SubLAN MODIFICATION TITLE: PQ007/PQ777 COST CODE

MODELS OF SYSTEMS AFFECTED: Submarine Local Area Network

DESCRIPTION/JUSTIFICATION: Provides modern, centrally managed, network systems to replace aging LAN systems.

Application subsystems include financial/inventory management, organizational and surface maintenance management, and administrative information systems support.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	. <u>P</u>	<u> Y</u>	F	<u>/ 05</u>	F)	<u>′ 06</u>	<u>F</u>	Y 07	F	′ 08	F.	Y 09	FY	10	FY.	<u>′ 11</u>	_ <u>T</u>	<u>C</u>	To	tal	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment (Note 1)	88	39.9	13	15.419	20	20.455	3	8.676	11	13.203	22	17.326	16	16.742	11	17.268	Cont.	Cont.	184	148.997	
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Production Support		1.310		0.812		1.077		0.457		0.695		0.912		0.881		0.909		Cont.		7.053	
Other (DSA)		0.234		0.095		0.360		0.320		0.182		0.684		0.813		0.630		Cont.		3.318	
Interm Contractor Support																					
Installation of Hardware*	82	32.772	5	4.845	18	16.833	16	15.357	8	8.231	20	15.893	19	17.348	14	17.104	Cont.	Cont.	182	128.383	
PRIOR YR EQUIP (Note 2)	82	32.772	5	4.845	1	0.936													88	38.553	
FY 05 EQUIP					13	12.156													13	12.156	
FY 06 EQUIP					4	3.741	16	15.357											20	19.098	
FY 07 EQUIP									3	3.086									3	3.086	
FY 08 EQUIP									5	5.145	6	4.770							11	9.915	
FY 09 EQUIP											14	11.123	8	7.305					22	18.428	
FY 10 EQUIP													11	10.043	5	6.110			16	16.153	
FY 11 EQUIP															9	10.994			9	10.994	
FY TC EQUIP																	Cont.	Cont.	0	0.000	
TOTAL INSTALLATION COST		33.006		4.940		17.193		15.677		8.413		16.577		18.161		17.734		Cont.	182	131.701	
TOTAL PROCUREMENT COST		74.224		21.171		38.725		24.810		22.311		34.815		35.784		35.911		Cont.		287.751	
METHOD OF IMPLEMENTATION: AIT				ADMINIS	TRATIVE	LEADTIN	IE:	3 months			PRODUC	CTION LEAD	OTIME:		3 months	3					
	CONTRA	CT DATES	:	FY2004:		Dec-03		FY2005:		Dec-04			FY2006:		Dec-05		FY2007:		Dec-06		
	DELIVER	Y DATES:		FY2004:		Mar-04		FY2005:		Mar-05			FY2006:		Mar-06		FY2007:		Mar-07		
NATALLATION CONTROLLS	D) (<u>FY</u> 2	<u>'06</u> 3				<u>FY</u> 2					<u>FY</u> 2	<u>08</u> 3	
INSTALLATION SCHEDULE:	PY							1		3	4	•	1		3	4		1		3	4
INPUT	87							1	2	3	12		0	3	8	5		0	0	2	6
OUTPUT	87							1	2	3	12		0	3	8	5		0	0	2	6
				FY	09				F۷	<u>′ 10</u>				FY	11						
INSTALLATION SCHEDULE:		•	1	2	3	4		1	2	3	4	•	1	2	3	4		TC			TOTAL
INPUT			0	3	9	8		3	5	6	5		3	3	4	4		Cont.			182
OUTPUT			0	3	9	8		3	5	6	5		3	3	4	4		Cont.			182

P-3A Exhibit

February 2006

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^{1/} Unit cost differs by class and includes variable GFI/ShipAlt production costs coupled with FMP requirements.

^{2/} Prior year install in FY06 due to availability shift.

Joint Network Management System (JNMS) PQ021/PQ777

COST CODE

Joint Network Management System (JNMS) MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: The Joint Network Management System (JNMS) is a COM, Commander, Joint Forces (CIF) joint communications planning and management system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

-INANCIAL	PLAN:	(\$ in	millions)	

Notes/Comments

	<u>PY</u>	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	<u>FY 11</u>	TC	<u>Total</u>
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	11 5.753	2 0.522	0 0.000	0 0.000	0 0.000	0 0.000	0 0.000	0 0.000	Cont. Cont.	13 6.275 0 0.000 0 0.000 0 0.000
Training Equipment Production Support Other (Shore Pre-Installation Design) Interm Contractor Support		0.515	0.062	0.000	0.000	0.000	0.000	0.000	Cont.	0 0.000 0 0.577 0 0.000 0 0.000
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP	0 0.0 0 0.0	2 0.337 2 0.337	11 1.592 9 1.310 2 0.282	0 0.000	0 0.000	0 0.000	0 0.000	0 0.000	Cont. Cont.	13 1.929 11 1.647 2 0.282 0 0.000
FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP				0 0.000	0 0.000	0 0.000	0 0.000	0 0,000		0 0.000 0 0.000 0 0.000 0 0.000 0 0.000
FY TC EQUIP								0.000	Cont. Cont.	0 0.000
TOTAL INSTALLATION COST	0.000	0.337	1.592	0.000	0.000	0.000	0.000	0.000	Cont.	13 1.929
TOTAL PROCUREMENT COST	5.753	1.374	1.654	0.000	0.000	0.000	0.000	0.000	Cont.	8.781
METHOD OF IMPLEMENTATION: AIT		ADMINI	STRATIVE LEADT	IME: 2 months	•	PRODUCTION LE	ADTIME:	2 months		
	CONTRACT DATES	: FY2004	: Dec-04	FY2005:	Dec-05	;	FY2006:		FY2007:	
	DELIVERY DATES:	FY2004	: Apr-05	FY2005:	Apr-06	3	FY2006:		FY2007:	
INSTALLATION SCHEDULE:	PY			1	<u>FY 06</u> 2 3	4	1 2	<u>' 07</u> 3 4	1	FY 08 2 3 4
INOTALEATION SCHEDOLE.					2 3			<u> </u>		2 3 4
INPUT	2				11					
OUTPUT	2					11				
INSTALLATION SCHEDULE:		<u> </u>	<u>Y 09</u> 3 4	1	<u>FY 10</u> 2 3	4	1 2	<u>7 11</u> 3 4	TC	TOTAL
INPUT									Cont.	13
OUTPUT									Cont.	13

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			PRODUCTION RAT	E		PROCUREMEN	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
Procurements are made from COTS inventories.										
ISNS	Various					Various				
										1

Notes/Comments

 NAVMAT FORM 7110/4 (REVISED 11/77)
 P-1 SHOPPING LIST
 P-21A Exhibit

 ITEM NO.
 74

^{1/} Tactical Messaging - Quantity changes from PB06 attributed to changing ship avails.

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APPROP	RIATION/BUDGET ACTIVITY																	IENC								,,,,,,,		,						SUB		D NC).			
OP,N - BA	A2 COMMUNICATIONS & ELECTRO	ONIC EQU	JIPN	IENT	ACCEP	BAL					SCAL	VE	^ D	B		3050	Sh	ip Co	mmu	nicat	ion A		ation ISCAL	VEA		06				1				52PC		EAD		07		
COST	ITEM/MANUFACTURER/		E	PROC	PRIOR	DUE		CY04	4		JUAL		ALE			٩R	0)5			1		IJCAL			DAR Y	/EAR		06								R YE		0	7
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			PRODUCTION RAT	E		PROCUREMEN	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
Procurements are made from COTS inventories.										
ISNS	Various					Various				

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO.

CLASSIFICATION

BUDGET ITEM JUSTIFICATIO	N SHEET			DATE				Februar	y 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EC	QUIPMENT	P-1 ITEM NOM BLI: 3057 Com		Under \$5M	T			SUBHEAD 52NU	
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY									
COST (in millions)	\$13.2	\$15.0	\$12.6	\$22.3	\$23.2	\$22.8	\$22.2	Cont	Cont

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

EPLRS -DR - Enhanced Position Location Reporting System - Data Radio is a Multi-Service, nuclear survivable C4 system developed to support battle-space automated systems by providing: Near-real time, jam-resistant, secure IP data distribution and communications with embedded crypto.

BATTLE FORCE EMAIL 66 - BFEM 66 provides a basic SMTP/POP3 data transfer capability between Allied/NATO/Coalition Afloat forces utilizing the High Frequency (HF) Spectrum.

VIXS: Video Information Exchange System is a secure video teleconferencing (VTC) capability that provides multipoint secure VTC between afloat commanders, Chief of Naval Operations (CNO), Fleet Commanders, Combatant Commanders, and JTF components. It also supports NATO and Joint Worldwide Intelligence Communications System (JWICS) VTC. It supports global tactical command and control requirements to conduct distributed collaborative planning by senior commanders and decision makers. Secure VTC is the preferred method for commanders in the field and afloat to meet, collaborate, and plan all aspects of strike warfare. VIXS provides the only means for afloat commanders to meet face-to-face without traveling, which reduces tactical decision cycle time, and eliminates the cost and risk of flying between ships.

TMIP: Theater Medical Information Program - Maritime (TMIP-M) program is charged with deployment of both infrastructure and the software to support the theater requirements for healthcare and command and control (C2) activities: clinical, resources, logistics, decision support, etc. The development and release of TMIP software will be conducted incrementally and it will be based on GOTS medical software that is currently available in the military inventory. Software components selected for TMIP are: MAT, CHCS, DBSS, DMLSS, TRAC2ES, and other developed software meets the functionality of Snap Automated Medical System (SAMS). Meanwhile, until TMIP is fully deployed in the fleet (FOC FY08), SAMS will be concurrently supported. Subsequent TMIP Block releases will follow. TMIP-M will leverage Integrated Shipboard Network System (ISNS) and NTCSS infrastructure components, Horizontal Integration efforts, as well as installation, logistics, and fleet support components.

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2006
	P-1 ITEM NOMENCLATURE BLI: 3057 Communication Items		SUBHEAD 52NU

PORTABLE RADIOS: Procures MultiBand Inter/Intra Team Radios (MBITR) for deploying ships and Navy Ground Forces (Naval Construction Forces, Naval Coastal Warfare Group elements, Naval Beach Groups, Navy Cargo-Handling and Port Operations Group, and others). No installation funding required. Procurement is needed to support Force Protection operations, especially with Joint forces.

COMBAT SURVIVOR EVADER LOCATOR (CSEL): The Combat Survivor Evader Locator (CSEL) Radio system provides U.S. combat forces with secure, encrypted, low probability of detection, two-way, over the horizon, near real time data burst communications with integral precise geopositioning; and non-secure, unencrypted line-of-site voice and beacon capability to support survival, evasion and personnel recovery operations. This is a joint Program with the Air Force as lead. The User segment of the CSEL system is composed of a battery operated hand held radio (HHR) (AN/PRQ-7), a radio set adapter (RSA) (J-6431/PRQ-7), a GPS antenna and coupler, and a laptop CPU with software for loading the HHR (CSEL Planning Computer (CPC)). The HHR will weigh 32 ounces and is of comparable size to other portable SATCOM radios (8x3.5x1.75"). CSEL will require a key fill device and will have improved jam and spoofing resistance by incorporating the next-generation Selective Availability Anti-Spoofing Module (SAASM) GPS module. The HHR requires the "CSEL infrastructure" to be operational, including the Ground segment's Joint Search and Rescue Center (JSRC) workstation/software and the Over-The-Horizon (OTH) segment's UHF Base Station (UBS). This funding line procures CSEL user equipment for Navy special forces; funding for Navy/United States Marine Corps (USMC) aircrews is provided via a separate (NAVAIR) program. The production contract is issued as a joint, single lot/option procurements, with all services funding applied to the lot/option.

DDG 51 Class Force Protection equipment for Shipboard Wireless Communication System Enhancement, Land Mobile Radios and Emergency SATCOM Secure Radios: this provides DDGs 89-106 the NTIA approved DoD frequencies and narrow banding requirements directed by: DDG 51 Flight IIA Operational Requirement Document (ORD) - Secure communications capability; Navy decision coordination paper - NDCP S-0812-SL (Confidential), dtd 2/23/83; DEPSECDEF memo dtd 01 Aug 2001 directed LMRs to operate in the US military band of 380-399MHz; and USS COLE lessons learned.

FY05 Congressional Adds:

NUCA1 (FY05): Shipboard Communication Upgrades: Funding will provide software/hardware upgrades to approximately 15 large Navy ships to improve security for Shipboard Systems to comply with certification requirements and ultimately, readiness.

Exhibit P-40, Budget Item Justification Unclassified Classification

	COST ANALYSIS							DATE			Februa	ary 2006
APPROPRIATION A	ACTIVITY IUNICATIONS AND ELECTRONIC EQUIPMENT					ICLATURE	ndor ¢EM			SUBHE 52NU	AD	
OF, IN - BA-2 COIVIIV	INICATIONS AND ELECTRONIC EQUIPMENT		PY	BLI. 303			nder şəivi	EV 2000		JZINO	EV 200	
COST		ID	TOTAL		FY 200 UNIT	TOTAL		FY 2006 UNIT	TOTAL		FY 200	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
NU019 NU022	EPLRS BFEM 19.2 Kpbs Modem upgrade	A A		43	2.0	86						
NU237	Portable Radios -Gen Purpose Handheld Radios			52	22.9	1,193	254	21.4	5,446	288	20.2	5,823
NU250	CSEL	Α		380	9.5	3,618	202	9.8	1,970	183	9.9	1,81
NU239	vixs	Α					3	266.3	799			
NU240	ТМІР	В		11	54.0	594	10	54.0	540	8	63.0	504
NU555	Production Support					795			1,103			80

Remarks:

BFEM: FY05 includes procurement of 19.2 Kbps modem upgrade to existing systems.

CSEL: The Unit Cost is NOT the actual individual cost of a single CSEL HHR - it is the total hardware cost computed by dividing the total yearly hardware cost by the number of radios procured.

TMIP: Unit Cost for TMIP is an average cost based on mix of ship class.

DD FORM 2446, JUN 86

Exhibit P-5, Budget Item Justification Unclassified

	COST ANALYSIS (Continued)								DATE			Februar	y 2006
	IATION ACTIVITY	DIAFAIT					M NOMEN				SUBHE	AD	
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUI	PMENT		TO		OST IN T				Under \$5M	52NU		
				10	TALC	FY 200		103 OF	FY 20			FY 2007	
COST		ID				UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE			QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
	INSTALLATION						3,041			2,529			926
NU777	FMP						2,607			2,167			766
NU777	DSA						434			239			160
NU777	NON-FMP						0			123			0
	Total SPAWAR CONTROL						9,327			12,387			9,867
NUCA1*	Shipboard Communications Upgrade DDG 51 Class Force Protection						1,500						
110240	DDG 51 Class Force Protection FMP Installation				3	244	732 1,628		247	741 1,918	3	251	753 1,954
	Total NAVSEA Control						3,860			2,659			2,707
	CONSOLIDATED CONTROL						13,187			15,046			12,574

Remarks: *Congressional adds

Exhibit P-5, Budget Item Justification Unclassified

DD FORM 2446, JUN 86

A. DATE PROCUREMENT HISTORY AND PLANNING February 2006 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT BLI: 3057 Communication Items Under \$5M CONTRACTOR CONTRACT RFP DATE SPECS DATE **ELEMENT OF COST** FY COST AND METHOD LOCATION ISSUE AWARD OF FIRST QTY UNIT AVAILABLE REVISIONS CODE LOCATION & TYPE OF PCO DATE DATE Delivery COST NOW AVAILABLE HARRIS Corp, Rochester NY FFP NU237 Portable Radios - General Purpose Handheld Radios 05 SSC CH N/A 52 22.9 YES Apr-06 Sep-06 NU237 Portable Radios - General Purpose Handheld Radios HARRIS Corp, Rochester NY FFP SSC CH N/A 254 YES 06 Apr-06 Sep-06 21.4 NU237 Portable Radios - General Purpose Handheld Radios 07 HARRIS Corp, Rochester NY FFP SSC CH N/A Nov-06 Apr-07 288 20.2 YES NU250 CSEL / 2 04 Boeing Company, The FFP AFMS/SMC N/A Sep-04 Sep-05 160 11.2 YES CSEL/² NU250 FFP AFMS/SMC YES 05 Boeing Company, The N/A Jun-05 Apr-06 380 9.5 CSEL/^{2&3} FFP NU250 06 Boeing Company, The ESC/GIGSE N/A Feb-06 Oct-06 202 9.8 YES NU250 | CSEL / 2 & 3 Boeing Company, The 07 **FFP** ESC/GIGSE N/A Dec-06 183 YES Oct-07 9.9 NU239 VIXS 06 SSC CHS WX **SPAWAR** N/A Dec-05 Mar-06 3 266.3 YES NU240 TMIP /1 05 SSC CHS/CHAR WX SSC CHS/CHAR N/A Nov-04 Jan-05 11 54.0 YES NU240 TMIP / 1 06 SSC CHS/CHAR WX SSC CHS/CHAR N/A Nov-05 10 54.0 YES Jan-06 NU240 TMIP / 1 07 SSC CHS/CHAR WX SSC CHS/CHAR N/A Nov-06 Jan-07 8 63.0 YES NU248 DDG 51 Class Force Protection GSA **NSWC Crane** YES 05 Oct-04 Jan-05 244.0 Motorola - Schaumberg, Illinois 3 NU248 DDG 51 Class Force Protection 06 Motorola - Schaumberg, Illinois GSA **NSWC Crane** Mar-06 May-06 3 247.0 YES NU248 DDG 51 Class Force Protection Oct-06 07 Motorola - Schaumberg, Illinois GSA **NSWC Crane** Jan-07 3 251.0 YES

Exhibit P-5a, Procurement History and Planning Unclassified Classification

D. REMARKS

^{1/} TMIP: Unit Cost for TMIP is an average cost for the year of total costs divided by number of ships deploying TMIP. Actual unit costs vary by ship class.

^{2/} CSEL: The Unit Cost is NOT the actual individual cost of a single CSEL HHR - it is the total hardware cost computed by dividing the total yearly hardware cost by the number of radios procured.

^{3/} CSEL: Contract management team transitioned from SMC to ESC in FY06, contract remains with Boeing.

^{4/} Portable Radios: FY04 procurement funding realigned to EPLRS in Oct 2005 to fund Emergent Requirement.

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS February 2006

COST CODE MODELS OF SYSTEMS AFFECTED:

EPLRS

DESCRIPTION/JUSTIFICATION:

UHF Line-Of-Sight radio system, ship to ship and ship to shore communications.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																		
	l Qtv	\$ I	1	Qtv FY	<u>′ 05</u> \$	FY Qtv	<u>06</u> \$	Qty	<u>′ 07</u> \$	<u>FY 08</u> Qty	I Qty	<u>Y 09</u> \$	<u>FY 10</u> Qtv \$	FY 11 Qty	\$ I G	TC Qty \$	Qtv	Total s
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring	Qiy	\$		Qiy	\$	Qiy		Qiy	•	Qty \$	Qiy		Qiy \$	Qiy	\$ 0	aty \$	Qiy	Þ
Equipment Equipment Nonrecurring EPLRS RACKS Engineering Change Orders Data Training Equipment	29	6.850													:	5 1.008	34	7.858
Production Support Other (DSA) Interm Contractor Support		1.884 0.786			0.158 0.000		0.170									0.500 0.032		2.712 0.818
Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP		3.755 3.755		7 7	1.121 1.121	6	1.061 1.061									5 0.953	34 29	6.890 5.937
FY TC EQUIP																5 0.953	5	0.953
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		4.541 13.275			1.121 1.279		1.061 1.231		0.0	0.0		0.0	0.0		0.0	0.984 2.492		7.707 18.277
METHOD OF IMPLEMENTATION:		3.275			1.279		1.231		0.0	ADMINISTRAT	IVE LEAD		3 mos			ON LEAD TIME	D:	3-9 mos
	CONTRAC	T DATES:	:			FY 2004:		Sep-04		FY 2005:	N/A		FY 2006:	N/A	FY 2	2007:	N/A	
	DELIVERY	DATES:				FY 2004:		Dec-04		FY 2005:	N/A		FY 2006:	N/A	FY 2	2007:	N/A	
INSTALLATION SCHEDULE:	PY						1	2 <u>FY</u>	<u>06</u> 3	4	1	<u>FY 07</u> 2	3 4	. <u> </u>	1 :	<u>FY 08</u> 2 3	4	_
INPUT	23						1	2	2	1								
OUTPUT	23						1	2	2	1								
INSTALLATION SCHEDULE:			1 2	<u>Y 09</u> 3	4	_	1	<u>FY 10</u> 2	3	4	1	<u>FY 11</u> 2	3 4		TC	TOTAL		
INPUT															5	34		
OUTPUT															5	34		

Notes/Comments

TC includes 9 ship sets for afloat units and 1 ship set for training (correcting error in TC from PB06).

FY04 Funding realigned from Portable Radios to EPLRS in Oct 2005 to fund Emergent Requirement of Procurement and Installation of 7 systems.

TC quantity increased by 2 for the procurement and install of decomm'd ships (LPD-5 & LPD-10), SECNAV waiver received

Exhibit P-3a, Individual Modification Program Unclassified Classification

February 2006

MODIFICATION TITLE: Battle Force Email 66 COST CODE NU022 MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION: BFEM 66 provides a basic SMPT/POP3 data transfer capability between Allied/NATO/Coalition Afloat forces utilizing the HF Spectrum.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																		
	<u>P</u>	<u>Y</u>		F)	<u>/ 05</u>	FY 06	FY 07		FY 08	FY 09	<u>FY 1</u>	0	FY 11	_ ,	٠.	TC	٠	<u>Total</u>
RDT&E	Qty	\$		Qty	\$	Qty \$	Qty	\$	Qty \$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT:																		
Kit Quantity																		
Installation Kits																		
Installation Kits Nonrecurring																		
Equipment	164	5.290													200	9.135	364	14.425
Equipment Nonrecurring	00	0.050		40	0.000										000	5.040	004	5 770
BFEM 19.2 Kbps Modem upgrade Data	36	0.052		43	0.086										282	5.640	361	5.778
Training Equipment																		
Production Support		3.021			0.215											3.929		7.165
Other (DSA)		1.723			0.214											3.045		4.982
Interm Contractor Support																		
Installation of Hardware		6.516		43	0.554										482	10.556	725	17.626
PRIOR YR EQUIP	200	6.516															200	6.516
FY 05 EQUIP FY 06 EQUIP				43	0.554												43	0.554
FY 06 EQUIP FY 07 EQUIP																		
FY 08 EQUIP																		
FY 09 EQUIP																		
FY 10 EQUIP																		
FY 11 EQUIP FY TC EQUIP															482	10.556	482	10.556
TOTAL INSTALLATION COST		8.239			0.768	0.0		0.0	0.0	0.)	0.0		0.0	702	13.601	402	22.608
TOTAL PROCUREMENT COST		16.602			1.069	0.0		0.0	0.0	0.		0.0		0.0		32.305		49.976
METHOD OF IMPLEMENTATION:									ADMINI	STRATIVE LEA	D TIME: 3	mos	PF	RODUC	TION L	EAD TIME	:	2 mos
	CONTRA	CT DATES				FY 2004:	Nov-03		FY 2005:	Nov-04	EV 2006:	FY 2006:			FY 2007:		N/A	
	CONTRACT DATES: DELIVERY DATES:						1404-03		FY 2005:	1400-04	1 1 2000.	FY 2006: FY 2006:			1 1 200	1.	IN/A	
						FY 2004:	Dec-03		FY 2005:	Dec-04	FY 2006:				FY 2007:		N/A	
							FY 06				FY 07				F	Y 08		
INSTALLATION SCHEDULE:	PY					1	2	3	4	1 2		4		1	2	3	4	
						,												=
INPUT	243																	
OUTPUT	243																	
			F	′ 09			FY 10				FY 11							
INSTALLATION SCHEDULE:		_	1 2	3	4	1	<u>FY 10</u> 2	3	4	1 2	3	4	_	TC		TOTAL		
INPUT														482		725		
OUTPUT														482		725		

Notes/Comments

Prior year quantity increase due to emergent installation of equipment and BFEM 19.2 Kbps Modem Upgrade on CVN 69

Exhibit P-3a, Individual Modification Program Unclassified Classification MODIFICATION TITLE: VIXS (Video Information Exchange System)-SHIP INSTALLATION February 2006

COST CODE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

NU239

Provides multifunctional information exchange systems capable of interactive imagery and video teleconferencing.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

Qty RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment 3.9 0.5 cont. cont cont Equipment Nonrecurring **Engineering Change Orders** Training Equipment **Production Support** 1.1 0.0 1.2 Other (DSA) 0.6 0.0 0.7 Interm Contractor Support Installation of Hardware 67 67 3.5 2 0.2 69 67 3.7 cont. PRIOR YR EQUIP 3.5 3.5 0 2 0 FY 05 EQUIP 0.0 FY 06 EQUIP 2 0.2 0.2 FY 07 EQUIP 0.0 FY 08 EQUIP 0 0.0 FY 09 EQUIP 0 0.0 FY 10 EQUIP 0 0.0 FY 11 EQUIP 0 0.0 FY TC EQUIP cont. cont cont TOTAL INSTALLATION COST 4.2 0.0 0.2 0.0 0.0 0.0 0.0 0.0 cont. cont TOTAL PROCUREMENT COST 9.2 0.0 0.7 0.0 0.0 0.0 0.0 0.0 cont. cont METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEAD TIME: 1 mos PRODUCTION LEAD TIME: 3 mos CONTRACT DATES: FY 2004: FY 2007: Dec-03 FY 2005: N/A FY 2006: Dec-05 N/A **DELIVERY DATES:** FY 2004: Mar-04 FY 2005: N/A FY 2006: Mar-06 FY 2007: N/A FY 06 FY 08 INSTALLATION SCHEDULE: PY 67 **INPUT** OUTPUT 67 INSTALLATION SCHEDULE: FY 10

INPUT cont. cont.

OUTPUT

cont. cont. cont.

Notes/Comments

Exhibit P-3a, Individual Modification Program Unclassified Classification

TOTAL

TC

MODIFICATION TITLE: VIXS (Video Information Exchange System)-SHORE INSTALLATION COST CODE

NU239

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

Provides multifunctional information exchange systems capable of interactive imagery and video teleconferencing.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)										_						_			
		<u>PY</u>			FY 0	<u> </u>	<u>FY 0</u>	<u>16</u>	FY 0	<u> 7</u>	FY C		FY 09	<u>FY 10</u> Qty \$	FY 11 Qty	_]	<u> </u>		<u>Fotal</u>
	Qty	\$			Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty \$	Qty	\$ Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support	20	1.8					1	0.3								cont.		cont.	cont.
Other (DSA)																			
Interm Contractor Support																		1	
Installation of Hardware	20	2.2					1	0.1								cont.		cont.	cont.
PRIOR YR EQUIP FY 05 EQUIP	20	2.2																20	2.2 0.0
FY 05 EQUIP FY 06 EQUIP							1	0.1										0	0.0
FY 07 EQUIP							,	0.1										Ö	0.0
FY 08 EQUIP																		0	0.0
FY 09 EQUIP																		0	0.0
FY 10 EQUIP																		0	0.0
FY 11 EQUIP																		0	0.0
FY TC EQUIP	-					0.0										cont.		0	0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		2.2 4.0				0.0		0.1		0.0		0.0	0.0	0.0		0.0 cont. 0.0 cont.	0.0		cont.
METHOD OF IMPLEMENTATION:		4.0				0.0		0.5					IVE LEAD TIM			0.0 cont. RODUCTION		ME.	cont. 3 mos
METHOD OF IMPLEMENTATION.											/ (DIVIII VIC	311011	TVE EE/GD TIIVI		,	1100001101			0 11100
	CONT	RACT DA	TES:		FY 2004:		Dec-03		FY 2005:		N/A		FY 2006:	Dec-05	FY 2007:	N/A			
	DELIV	ERY DAT	ES:		FY 2004:		Mar-04		FY 2005:		N/A		FY 2006:	Mar-06	FY 2007:	N/A			
										FY 06	6			FY 07			F`	Y 08	
INSTALLATION SCHEDULE:	PY	_							1	<u>FY 06</u> 2	3	4	1	2 3	4	1	2	3	4
INPUT	20										1								
OUTPUT	20										1								
INSTALLATION SCHEDULE:				1	<u>FY 0</u>	<u>)9</u> 3	4		1	FY 10	<u>0</u> 3	4	1	2 <u>FY</u>	<u>1</u> 4	TC		TOTAL	
INPUT													<u> </u>			cont	_	cont	
																COIL		COIIL	
OUTPUT																cont		cont	

Notes/Comments

PY Shore cost increase due to the one-time purchase of VTC equipment for the Pentagon

Exhibit P-3a, Individual Modification Program Unclassified Classification

February 2006

MODIFICATION TITLE: TMIP COST CODE NU240

MODELS OF SYSTEMS AFFECTED: TMIP DESCRIPTION/JUSTIFICATION:

TMIP is the infrastructure and software to support Navy and Marine Corps requirements for healthcare and C2 activities:

clinical resources, logistics, decision support, etc. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)		DV			ΓV	O.F.	ΓV	00	ΓV	07		/ 00	ΓV	00		10	EV.			TC	т.	401
	Qty	<u>PY</u> \$	1		FY Qty	<u>05</u> \$	Qty	<u>06</u> \$	FY Qty	<u>07</u> \$	Qty	<u>′ 08</u> \$	FY Qtv	<u>09</u> \$	I Qty	<u>′ 10</u> \$	FY'	<u> </u>	Qty	<u>TC</u> \$	l Qty	<u>tal</u> \$ I
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	559	3.5			11	0.6	10	0.5	8	0.5	8	0.5	8	0.5	8	0.5	8	0.5	208	43.7	Note 1 828	50.9
Training Equipment Production Support Other (DSA) Interm Contractor Support		0.0 0.1				0.0 0.2		0.0 0.2		0.0 0.2		0.0 0.2		0.0 0.2		0.0 0.2		0.0 0.2		3.2 1.5		3.5 2.8
Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP	559 559	2.5 2.5			11	0.9	10	0.9	8	0.8	8	0.8	8	0.8	8	0.8	8	0.9	208	9.4	828 559 11 10 8 8 8 8	17.8 2.5 0.9 0.9 0.8 0.8 0.8 0.8
FY TC EQUIP																			208	9.4	208	9.4
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		2.6 6.1				1.2		1.1 1.7		0.9 1.5		0.9 1.5		1.0		1.0		1.0		10.9 57.8		20.6 74.9
METHOD OF IMPLEMENTATION:	L	6.1				1.8		1.7		1.5	ADMIN		IVE LEAD	1.5		1.5 2 mos		1.5	TION LE			74.9 2 mos
METHOD OF IMPLEMENTATION.	CONTR	RACT DA	TES:				FY 2004	4:	Nov-03		FY 200		Nov-04	TIME.	FY 2006		Nov-05	, KODO	FY 2007:	NO TIME.	Nov-06	. 11100
	DELIVE	ERY DAT	ES:				FY 2004	1:	Jan-04		FY 200)5:	Jan-05		FY 2006		Jan-06		FY 2007:		Jan-07	
INSTALLATION SCHEDULE:	PY							1	<u>FY 0</u> 2	0 <u>6</u> 3	4	, ,	1	2 <u>FY</u>	<u>07</u> 3	4		1	2 <u>E</u>	<u>Y 08</u> 3	4	
INPUT	570								3	3	4			2	3	3			2	3	3	
OUTPUT	570								3	3	4			2	3	3			2	3	3	
INSTALLATION SCHEDULE:			1	2 <u>F</u>	<u>Y 09</u> 3	4		1	<u>FY 1</u> 2	<u>0</u> 3	4		1	2	FY 11 3	4		TC	-	TOTAL		
INPUT				2	3	3			2	3	3			2	3	3		208		828		
OUTPUT				2	3	3			2	3	3			2	3	3		208		828		

The Inventory Objective for TMIP-M is 296. In FY00 and FY01, quantities reflect procurement of 532 SAMS-NT hardware/software upgrades to the legacy system. None of these units are part of the Inventory Objective for TMIP-M.

For FY02 and out, quantities reflect number of Inventory Objective ships receiving TMIP. Therefore, Total SAMS-NT units = 532;

Total TMIP units = 296.

Unit Cost for TMIP is an average cost based on mix of ship class.

Exhibit P-3a, Individual Modification Program Unclassified Classification

February 2006

COST CODE

Notes/Comments

February 2006

Unclassified Classification

MODIFICATION TITLE:

DDG 51 Class Force Protection Shipboard Wireless Communications System (NAVSEA)

NU248

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

DDG 51 Class Force Protection Equipment/Shipboard Wireless Comms enhancement, LMR and emergency SATCOM Secure Radios

Exhibit P-3a, Individual Modification Program

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																					
	PY	æ	İ	FY0		FY06		FY07	æ	FY08	•	FY09	Φ.	FY10	Φ.	FY11	œ	TC	Φ.	TOTAL	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	Qty 7	1.7		Qty	0.7	Qty 3	0.7	Qty 3	0.8	Qty 2	0.5	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty 18	4.4
Support Equipment Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP	7 7	4.5 4.5		3	1.6 1.6	3	1.9	3	2.0	2	1.3	0	0.0	0	0.0	0	0.0	0	0.0	18 7 3 3 3 2 0 0 0	11.3 4.5 1.6 1.9 2.0 1.3 0.0 0.0 0.0
TOTAL INSTALLATION COST		4.5			1.6		1.9		2.0		1.3		0.0		0.0		0.0				11.3
TOTAL PROCUREMENT COST		6.2			2.4		2.7		2.7		1.8		0.0	L	0.0		0.0		0.0		15.7
METHOD OF IMPLEMENTATION:									ADMINIS	STRATIV	E LEAL) IIME:		1 Month							
	CONT	RACT	DATES:					FY 2005	:	Oct-04			FY 200	06:	Mar-06			FY 2007:		Oct-06	
	DELIV	ERY DA	ATES:					FY 2005	:	Jan-05			FY 200	06:	May-06			FY 2007:		Jan-07	
INSTALLATION SCHEDULE:	PY						1	<u>F)</u> 2	<u>/ 06</u> 3	4		1	<u>E</u> 2	<u>Y 07</u> 3	4		1	<u>FY</u> 2	<u>′ 08</u> 3	4	_
INPUT	10								2	1			2	1				2			
OUTPUT	10								2	1				2	1			1	1		
INSTALLATION SCHEDULE: INPUT OUTPUT			1	2 <u>FY 09</u> 2 3	4	_	1	<u>F)</u> 2	<u>/ 10</u> 3	4	-	1	<u> </u>	<u>Y 11</u> 3	4			<u>TC</u>		<u>TOTAL</u> 18 18	

MODIFICATION TITLE: HYDRA (NAVSEA) February 2006

COST CODE MODELS OF SYSTEMS AFFECTED: NU245 AN/SRC-55

DESCRIPTION/JUSTIFICATION:

HYDRA is a wireless digital voice and data communications system using COTS trunking technology.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	PY		FY05		FY06		FY07		FY08		FY09		FY10		FY11		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring	14	21.2	,	•		,		·	2	5.4	3	8.9	3	8.7	3	8.8		·	25	53.0
Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support																			25	47.0
Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP	14 14	5.1 5.1							1	1.2	3	3.6	4	4.3	3	3.4		0.0	25 14 0 0 0	17.6 5.1 0.0 0.0 0.0
FY 08 EQUIP									1	1.2	1	1.2							2	2.4
FY 09 EQUIP											2	2.4	1	1.1					3	3.5
FY 10 EQUIP													3	3.2					3	3.2
FY 11 EQUIP															3	3.4			3	3.4
TC EQUIP																			0	0.0
TOTAL INSTALLATION COST		5.1		0.0		0.0		0.0		1.2		3.6		4.3		3.4		0.0		17.6
TOTAL PROCUREMENT COST		26.3		0.0		0.0		0.0		6.6		12.6		13.0		12.2		0.0		70.6
METHOD OF IMPLEMENTATION:							F	ADMINI	STRATIV	E LEAD	TIME:	3 Month	S							

CONTRACT DATES: FY 2005: N/A FY 2006: N/A FY 2007: N/A **DELIVERY DATES:** FY 2005: N/A FY 2006: N/A FY 2007: N/A

FY 06 FY 08 **INSTALLATION SCHEDULE:** PΥ **INPUT** 14 1

OUTPUT 14 1

INSTALLATION SCHEDULE: <u>TC</u> **TOTAL INPUT** 25 25 **OUTPUT** 2 2

Notes/Comments

Exhibit P-3a, Individual Modification Program Unclassified Classification

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NU248	DDG 51 Class Force Protection Radios	05		3		3	Α		+ 2	2	+	1	-		-	+						_		+	+							1				+	+	+
NU248	DDG 51 Class Force Protection Radios	06		3		3																Α	1:	2	1													
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			PRODUCTION RA	TE		PROCUREM	ENT LEAD TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
CSEL	Boeing Company/SST, Palmdale, CA	150*	300*	500*	2	2	10	10		Months
DDG 51 Class Force Protection Radios/ COTS Models	Motorola, Schaumberg				•	N/A			•	

Exhibit P-21 Production Schedule Unclassified

Notes:

CSEL production contract will be awarded jointly, thus monthly production rate shown is not what each Service will be allocated. Actual monthly deliverables to each Service determined by CSEL Asset Allocation Board (PMW-156-5 is Navy rep)
Portable Radios: FY04 procurement funding realigned to EPLRS in Oct 2005 to fund Emergent Requirement.

	CLASSIFICATION																															DATI							—
										PR	ODU	JCT	101	N SC	CHE	ĒDU	LE	(Co	ntin	ued)					(DC	D FX	HIBI	Γ P-21)		D A	-		Fel	oruar	ry 200	6	
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	BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT														- I				Commi			ems I	Inder	\$5M											2NU				
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NU250	COEL	07	+	183		400	45	4.5	15	4.5	45	4.5	45	45 4	- 4	10 4	10 4	16	-	+		H		+	-	+-	1	H		+	\vdash		\dashv	+	+	+	+-	+	-
NU250	CSEL	07	+	183		183	15	15	15	15	15	15	15	15 1	5 1	16 1	16 1	16	-	-			-	-	+	-	-			-			\dashv	+	+	+	+	+	_
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		F	RODUCTION RATE			PROCUREME	ENT LEAD TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
CSEL	Boeing Company/SST, Palmdale CA	150*	300*	500*	2	2	10	10		Months

Exhibit P-21 Production Schedule

Note: CSEL production contract will be awarded jointly, thus monthly production rate shown is not what each Service will be allocated.

Actual monthly deliverables to each Service determined by CSEL Asset Allocation Board (PMW-156-5 is Navy rep)

Unclassified Classification

CLASSIFICATION

BUDGET ITEM JUSTIFIC	ATION SHE	ET				DATE			Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & EL		IPMENT		P-1 ITEM NOM 310700 Submar		ıpport			SUBHEAD 52W4	
	PY	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY										
COST (in millions)		\$17.7	\$2.1	\$0.7	\$18.8	\$19.0	\$19.4	\$19.8	Continuing	Continuing

The Submarine Broadcast Support program was established to improve the reliability, efficiency and performance of the Very Low Frequency (VLF) and Low Frequency (LF) submarine broadcast systems. These transmission mediums (VLF/LF) comprise the primary line of Fleet Ballistic Missile Command, Control and Communications (FBMC3). Shorebased transmitter sites are Emergency Action Message (EAM) relay points providing primary connectivity between Secretary of Defense and Ship, Submersible Ballistic Nuclear (SSBNs). Tasks are planned/ongoing to improve performance of VLF/LF broadcast capabilities consistent with changing operational requirements and upgrades to shore infrastructure including integrating Internet Protocol (IP) capability in Broadcast Control Authorities (BCA). The Submarine Enhanced Emergency Alert System (SEEAS) replaces the obsolete components of the AN/BST-1 transmitter buoy that is nearing the end of its service life in 2010. The AN/FRT-95A Upgrade will replace the maintenance intensive and obsolete transmitter control system with Commercial Off The Shelf (COTS) technology used in other VLF/LF programs.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

(1) Submarine Broadcast Upgrades: (W4008) Modernizes the Fixed Submarine Broadcast System (FSBS) by upgrading VLF/LF transmitters to maintain current fleet readiness. The upgrades are necessary to replace obsolete or degraded equipment, which will have an adverse impact on the mission. VLF/LF transmission systems will incorporate new technologies based on government and commercial best practices to make this medium of communication more efficient. Upgrades will also be accomplished to the broadcast generation subsystems at the Broadcast Control Authorities (BCA) and Broadcast Keying Sites (BKS). Composite bushings will replace the expensive and highly unique ceramic bushings that are deteriorating at VLF/LF sites and threaten reliability of the submarine broadcast. The AN/FRT-95A Upgrade will replace the maintenance intensive and obsolete transmitter control system with Commercial Off the Shelf (COTS) equipment used in other VLF/LF programs. The Submarine Operating Authority (SUBOPAUTH) provides consolidation and replication technologies used to unify and provide Continuity of Operations (COOP) for the shore architecture of broadcast generation systems. The site upgrades will facilitate the commonality among the SUBOPAUTHs, reduce workload by automating processes, drive to common operating procedures and augment the Submarine Community transition to IP based broadcasts.

(2) SEEAS (Submarine Enhanced Emergency Alert System): (W4014) Replaces the obsolete components of the AN/BST-1 transmitter buoy used to communicate "in extremis" messages to the Fleet Commander from an SSBN on patrol that had been rendered incapable of performing its mission either by hostile action or by a casualty. The AN/BST-1 transmitter buoys have been in service since 1960's and are nearing the end of service life.

									DATE				
	COST ANALYSIS											Februa	ary 2006
APPROPRI	ATION ACTIVITY					P-1 ITEM N	OMENCLAT	URE			SUBHE	AD	
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQ	UIPMENT			'	310700 Subm	narine Broadca	st Suppo	ort			52W4	
							TOTA	L COS	T IN THOUS	ANDS OF D	OLLARS	3	
			PY			FY 200	5		FY 2006	3		FY 200	7
COST		ID	TOTAL			UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
	Submarine Broadcast Systems												
W4008	Submarine Broadcast Upgrades	Α			11		9,186	2		1,732			
	MERLIN**												
	AN/FRT-72's												
**	Bushings/Insulators***				1	2631.0	2,631						
	SUBOPAUTH**				7	610.6	4,274	2	866.0	1,732			
	AN/FRT-95A Upgrade***				3	760.3	2,281						
W4014	Submarine Enhanced Emergency Alert System***	A			28	225.4	6,310						
W4555	Production Support						801			231			0
W4777	Installation				17		1,383	6		169	20		666
	Non FMP Installation Shore				17		1,383	6		169			150
	FMP Installations Ships				0		0	0		0			516
	DSA				0		0	0		0			0
					39		17,680	2		2,132	0		666
Remarks:	**Unit cost varies by site due to differing equipment configurations at each location. ***Issue 72114/FY06 Termination of ECARP - Use	FY05 fundi	ng to finan	ce FY07 R	equirem	ents							

P-1 #76 2 of 11

A. DATE PROCUREMENT HISTORY AND PLANNING February 2006 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 310700 Submarine Broadcast Support 52W4 CONTRACTOR RFP DATE SPECS DATE CONTRACT OF FIRST COST ELEMENT OF COST FΥ AND **METHOD** LOCATION ISSUE AWARD QTY UNIT AVAILABLE REVISIONS CODE LOCATION & TYPE OF PCO DATE DATE Delivery COST NOW AVAILABLE W4008 Submarine Broadcast Upgrades: AN/FRT-72's 04 GD-AIS - San Diego, CA C/CPFF SSC CHSN N/A Feb-04 Feb-06 4 1435.8 Yes Bushings/Insulators*** 05 Austin Insulators, Canada C/FFP SSC SD N/A Sep-05 Jun-07 1 2.631.0 Yes SUBOPAUTH** SSC SD 05 San Diego, CA C/FFP N/A Dec-04 Jun-05 7 610.6 Yes SUBOPAUTH** 06 San Diego, CA C/FFP SSC SD N/A Feb-05 2 Jun-06 866.0 Yes AN/FRT-95A Upgrade*** 05 C/FFP SSC CHSN GD-AIS - San Diego, CA N/A Jun-05 Jun-07 3 760.3 Yes W4014 SEEAS*** Keyport, WA 05 NUWC, Keyport, WA C/FFP N/A Aug-05 Feb-07 28 225.4 Yes

D. REMARKS

^{**}Unit cost varies by site due to differing equipment configurations at each location.

^{***}Issue 72114/FY06 Termination of ECARP - Use FY05 funding to finance FY07 Requirements

MODIFICATION TITLE: VALUE February 2006

COST CODE: W4012

MODELS OF SYSTEMS AFFECTED: VLF/LF Transmitter Systems

DESCRIPTION/JUSTIFICATION: Corrects deficiencies in material condition and logistics support of existing VLF/LF shore transmitter systems

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

ROTSE PROCUREMENT: KI Quantity Installation Kits	THOUSE LET LET U. (\$ III IIIIII ONE)	PY		FY05		FY06		FY07		FY08		FY09		FY10		FY11		TC		TOTAL	
PROCUREMENT: Kit Quantity Installation Kits Installation Charge Cha		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	%	Qty	\$
Kit Quantity Installation Kits Nonrecurring Equipment S 50.6 Equipment Nonrecurring S 50.6 Sugment Nonrecurring S 50.6 Sugment Nonrecurring S Sugment Nonrecurring S Sugment Nonrecurring S Sugment Nonrecurring S Sugment Nonrecurring S Sugment Nonrecurring S Sugment Nonrecurring S Sugment Nonrecurring S Sugment																					
Installation Kits																					
Installation Kits Nonrecurring Equipment Nonrecurring Equipment Nonrecurring Equipment Nonrecurring Equipment Nonrecurring Equipment Nonrecurring Equipment Other - Production Support Shore Pre-Design Installation Design Installation of Hardware Installation of Hardware Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Office Installation Off																					
Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Support Equipment Other - Production Support Installation of Hardware PY 05 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 10 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP TOTAL INSTALLATION COST TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 5 5.0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0																					
Equipment Nonrecurring Engineering Change Orders Data Training Equipment Other - Production Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 05 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	•																				
Engineering Change Orders Data Training Equipment Support Equipment Other - Production Support Shore Pre-Design Installation Design Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 05 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 10 EQUIP FY 10 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		5	50.6																	5	
Data Training Equipment Support Equipmen																					
Training Equipment Support Equipment Support Equipment Support Equipment Support Equipment Support Equipment Support Support Equipment Support Sup																					
Support Equipment Other - Production Support Support Equipment Other - Production Support Support Equipment Other - Production Support Support Equipment Other - Production Support Support Equipment Other - Production Support Support Equipment Other - Production Support Support Equipment Other - Production Support Support Equipment Support Equipme																					
Other - Production Support Shore Pre-Design Installation Design Installation of Hardware Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP TOTAL INSTALLATION COST TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 Other - Production Support 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.																					
Shore Pre-Design Installation Design Installation of Hardware 4 0.5 1 0.1 0 0.0 0 0.0 0 0.0 0 0.0 0			2.1																		
Installation of Hardware			2.1																		2.1
PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 5 0.6 0 0.0 0		1	0.5	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.6
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0.0 0.0 0.0 0.0 0.0 0.0 0.						0	0.0	"	0.0	U	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0 0.0 53.4		4	0.5	'	0.1																
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0																				_	
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TO EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0 0.0 53.4																				_	
FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TO EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0 0.0 53.4																				_	
FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST TOTAL PR																				-	
FY 10 EQUIP FY 11 EQUIP TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0																				_	
FY 11 EQUIP TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0																				-	
TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 53.3 0.1 0.0 0.0 0.0 0.0 0.0 0.0																				_	
TOTAL INSTALLATION COST 0.5 0.1 0.0																				-	
TOTAL PROCUREMENT COST 53.3 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 53.4			0.5		0.4		0.0	-	0.0		0.0		0.0		0.0		0.0	1	0.0	U	
								1										1			
METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 8 Months PRODUCTION LEADTIME: *	METHOD OF IMPLEMENTATION:		53.3		0.1		0.0		0.0			CTD VIII		DTIME:	0.0	8 Months		DDOD		LEVDTIN	

CONTRACT DATES:	FY 2004:	FY 2005:	FY 2006:	FY 2007:

DELIVERY DATES: FY 2004: Jun-04 FY 2005: Jun-05 FY 2006: FY 2007:

 $\frac{\text{FY 06}}{\text{INSTALLATION SCHEDULE:}} \qquad \frac{\text{FY 06}}{\text{PY}} \qquad \frac{\text{FY 07}}{\text{1} \quad 2 \quad 3 \quad 4} \qquad \frac{\text{FY 08}}{\text{1} \quad 2 \quad 3 \quad 4} \qquad \frac{\text{FY 08}}{\text{1} \quad 2 \quad 3 \quad 4}$

INPUT 5

INPUT

OUTPUT 4 1

FY 09 FY 10 FY 11 TC TOTAL INSTALLATION SCHEDULE: 1 2 3 4 1 2 3 4 1 2 3 4

INSTALLATION SCHEDULE: <u>1 2 3 4 1 2 3 4 1 2 3 4</u>

OUTPUT 5

Notes/Comments
*Production lead time varies by site due to differing equipment configurations at each location.

Exhibit P-3a, Individual Modification Program
Unclassified
Classification

5

MODIFICATION TITLE: Submarine Broadcast Upgrade

COST CODE: W4008 MODELS OF SYSTEMS AFFECTED: MERLIN

DESCRIPTION/JUSTIFICATION: Replaces obsolete and difficult to maintain emergency broadcast shore receivers.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(+,	PY	•	FY05	Φ.	FY06	•	FY07	Φ.	FY08	•	FY09	Φ.	FY10	•	FY11	•	TC	0/	TOTAL	Φ	1
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	%	Qty	\$	
PROCUREMENT: Kit Quantity Installation Kits																					
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	6	2.30																	6	2.30	
Training Equipment Support Equipment Other - Production Support Shore Pre-Design Installation Design		0.13																		0.13	
Installation of Hardware PRIOR YR EQUIP	2 2	0.03 0.03	4	0.06	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6 2	0.09 0.03	
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP			4	0.06															4 0	0.06 0.00 0.00	
FY 07 EQUIP FY 08 EQUIP																			0	0.00 0.00	
FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP																			0 0 0	0.00 0.00 0.00	
TC EQUIP																			0	0.00	
TOTAL INSTALLATION COST		0.03		0.06		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.09	
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		2.46		0.06		0.00	<u> </u>	0.00]	0.00 ADMINI	STRATIV	0.00 E LEA	I DTIME:	0.00	6 Months	0.00	PRODU	0.00 JCTION	<u> </u> LEADTIM	2.52 E:	12-15 M

 CONTRACT DATES:
 FY 2004:
 Dec-03
 FY 2005:
 FY 2006:
 FY 2007:

 DELIVERY DATES:
 FY 2004:
 Dec-04
 FY 2005:
 FY 2006:
 FY 2007:

INSTALLATION SCHEDULE: PY 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4

INPUT 6
OUTPUT 6

FY 09 FY 10 FY 11 TC TOTAL

INSTALLATION SCHEDULE: <u>1 2 3 4 1 2 3 4 1 2 3 4</u>

INPUT 6

OUTPUT 6

Notes/Comments

Exhibit P-3a, Individual Modification Program

Unclassified Classification

February 2006

^{*}Production lead time varies due to differing equipment at each location.

MODIFICATION TITLE: Submarine Broadcast Upgrade February 2006

COST CODE: W4008
MODELS OF SYSTEMS AFFECTED: W4078
AN/FRT-72's

DESCRIPTION/JUSTIFICATION: Replaces obsolete and difficult to maintain LF shore transmitters

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																					
	PY	•	FY05	•	FY06	•	FY07		FY08	•	FY09	Φ.	FY10	•	FY11	•	TC	0/	TOTAL	•	i
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment	Qty 4	5.74	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	<u>%</u>	Qty 4	5.74	
Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other - Production Support Shore Pre-Design Installation Design		0.13																		0.13	
Installation of Hardware PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP	0	0.0	0	0.0	4	0.05	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4 0 4 0 0 0 0 0 0	0.05 0.00 0.05 0.00 0.00 0.00 0.00 0.00	
TOTAL INSTALLATION COST		0.00		0.00		0.05		0.00		0.00		0.00		0.00		0.00		0.00		0.05	1
TOTAL PROCUREMENT COST		5.88		0.00		0.05		0.00		0.00		0.00		0.00		0.00		0.00		5.93	
METHOD OF IMPLEMENTATION:					•					ADMINI	STRATI	VE LEA	DTIME:		7 Months	6	*PROD	UCTION	LEADTI	ME:	24 Months
	CONT	RACT	DATES	:		FY 2004:		Feb-04	F	Y 2005:				1	FY 2006:			I	FY 2007:		
	DELIV	ERY D	ATES:			FY 2004:		Feb-06	F	Y 2005:				1	FY 2006:			I	FY 2007:		
INSTALLATION SCHEDULE: INPUT OUTPUT	PY	-		1	2 2	7 <u>06</u> 3 2 2	2	-	1	<u>FY (</u>	<u>07</u> 3	4		1	2 <u>FY</u>	<u>′ 08</u> 3	4				
INSTALLATION SCHEDULE:			1	2 <u>F</u>	<u>Y 09</u> 3	4		1	2 <u>FY</u>	<u>10</u> 3	4	_	1	<u>F</u> 2	<u>Y 11</u> 3	4	_		<u>TC</u>		<u>TOTAL</u>
INPUT																					4
OUTPUT																					4
0011 01																					4

Notes/Comments

*Production lead time varies due to differing equipment at each location.

Exhibit P-3a, Individual Modification Program
Unclassified
Classification

MODIFICATION TITLE: Submarine Broadcast Upgrade February 2006

COST CODE: W4008

MODELS OF SYSTEMS AFFECTED: BUSHINGS/INSULATORS

DESCRIPTION/JUSTIFICATION: Replaces VLF/LF bushings/insulators that have reached the end of their service life

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)																					
	PY	•	FY05 Qtv	\$	FY06	æ	FY07	æ	FY08	•	FY09	•	FY10	•	FY11	æ	TC Qty	0/	TOTAL	Φ.	İ
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	%	Qty	\$	
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment	2	1.87	1	2.63					3	3.35	3	3.68						Cont.		Cont.	
Other - Production Support		0.15		0.22						0.46		0.28		0.12						1.24	
Shore Pre-Design Installation Design Installation of Hardware PRIOR YR EQUIP	0	0.0	2	0.02	0	0.00	1	0.02	0	0.01 0.00	3	0.01 0.03	3	0.03	0	0.00		Cont.	9	0.10 0.00	
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP			2	0.02			1	0.02			3	0.03	3	0.03					2 1 0 0 3 3 0 0	0.02 0.02 0.00 0.00 0.03 0.03 0.00 0.00	
TOTAL INSTALLATION COST		0.0		0.02		0.00		0.02		0.00		0.03		0.03		0.00		Cont.		Cont.	
TOTAL PROCUREMENT COST		2.02		2.87		0.00		0.02		3.82		4.00		0.16		0.00		Cont.		Cont.	
METHOD OF IMPLEMENTATION:										ADMINI	STRATI	√E LEA	DTIME:		10-12 Mc	nths	*PROD	DUCTION	LEADTI	ME:	18-24 Months
	CONT	RACT	DATES:	:		FY 2004:		Jan-04	F	Y 2005:	Aug-05			1	Y 2006:				FY 2007:		
	DELIV	/ERY D	ATES:			FY 2004:		Jan-05	F	FY 2005:	Jun-07			I	Y 2006:				FY 2007:		
INSTALLATION SCHEDULE:	PY	_	-	1	<u>FY</u> 2	<u>′ 06</u> 3	4		1	<u>FY</u> 2	3	4	-	1	<u>FY</u> 2	<u>08</u> 3	4				
INPUT	2	2									1										
OUTPUT	2	2										1									
INSTALLATION SCHEDULE:			1	<u>F</u> 2	<u>Y 09</u> 3	4	-	1	<u>FY</u> 2	<u>10</u>	4	<u>-</u>	1	2 2	<u>Y 11</u> 3	4	_		<u>TC</u>		<u>TOTAL</u>
INPUT				1	1	1			1	1	1								Cont.		Cont.
OUTPUT					1	1		1		1	1		1						Cont.		Cont.

Notes/Comments

*Production lead time varies due to differing equipment at each location.

Exhibit P-3a, Individual Modification Program

P-1#76 7 of 11 Unclassified Classification

MODIFICATION TITLE: **Submarine Broadcast Upgrade** February 2006

COST CODE: W4008 MODELS OF SYSTEMS AFFECTED: SUBOPAUTH

DESCRIPTION/JUSTIFICATION: Upgrades and replaces submarine broadcast equipment at shore sites worldwide

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																					
	PY Qty	æ	FY05 Qty	e	FY06	\$	FY07 Qtv	\$	FY08 Qty	\$	FY09 Qty	¢.	FY10	\$	FY11 Qty	\$	TC Qty	%	TOTAL Qty	¢.	1
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	7	4.24	7	4.71	Qty 2	1.73	Qty	\$	uty	*	Qty	\$	Qty	*	Qty	\$	Qty	<u> </u>	16	10.68	
Support Equipment Other - Production Support		0.47		0.18		0.23														0.87	
Shore Pre-Design Installation Design Installation of Hardware PRIOR YR EQUIP	4	0.22	10	0.75	2	0.12	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16 0	1.09 0.00	
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP	4	0.22	3 7	0.10 0.65	2	0.12													7 7 2 0 0	0.00 0.32 0.65 0.12 0.00 0.00 0.00	
FY 11 EQUIP TC EQUIP																			0	0.00	
TOTAL INSTALLATION COST		0.22		0.75		0.12		0.0		0.0		0.0		0.0		0.0		0.0		1.09	
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		4.92		5.63		2.08		0.0		0.0	STRATIV	0.0 /FIFA	DTIME:	0.0	2 Month	0.0	*PROD	0.0	 LEADTII	12.64 ME] 6 Months
WETTOD OF INFERENCE.	CONT	RACT	DATES	:		FY 2004:		Jan-04	F		Dec-04	L LL/	DTIIVIE.			Dec-05			FY 2007:	VIL.	O WOTHING
	DELIV	ERY D	ATES:			FY 2004:		Jul-04	F	Y 2005:	Jun-05			I	FY 2006:	Jun-06			FY 2007:		
INSTALLATION SCHEDULE:	PY 14	_		1	<u>FY</u> 2	<u>′ 06</u> 3			1	<u>FY</u> 2	<u>07</u> 3	4		1	2 <u>FY</u>	3	4				
OUTPUT	14					1	1														
INSTALLATION SCHEDULE:			1	2 2	<u>Y 09</u> 3	4		1	2 <u>FY</u>	<u>10</u> 3	4		1	2 2	<u>Y 11</u> 3	4	-		<u>TC</u>		TOTAL
INPUT																					16
OUTPUT																					16

Notes/Comments

*Production lead time varies due to differing equipment at each location. 16 sets of equipment for 12 sites.

Exhibit P-3a, Individual Modification Program Unclassified

P-1 # 76 8 of 11

Classification

MODIFICATION TITLE: **Submarine Broadcast Upgrade** February 2006

COST CODE: W4008

MODELS OF SYSTEMS AFFECTED: AN/FRT-95A Upgrade

DESCRIPTION/JUSTIFICATION: Replaces transmitter control system with COTS technology

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																					
	PY	•	FY05	•	FY06	•	FY07	•	FY08	•	FY09	•	FY10	•	FY11	•	TC	0.4	TOTAL	•	i
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	%	Qty	\$	1
PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment			3	2.3															3	2.3	
Support Equipment Other - Production Support				0.2																0.2	
Shore Pre-Design Installation Design Installation of Hardware PRIOR YR EQUIP	0	0.0	0	0.0	0	0.0	3	0.1	0	0.0	0	0.00	0	0.0	0	0.0	0	0.0	3	0.1	
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP							3	0.1											0 3 0 0	0.0 0.1 0.0 0.0	
FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP																			0 0 0 0	0.0 0.0 0.0 0.0 0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.1		0.0		0.00		0.0		0.0		0.0		0.1	
TOTAL PROCUREMENT COST		0.0		2.4		0.0		0.1		0.0		0.00		0.0		0.0		0.0		2.6	1
METHOD OF IMPLEMENTATION:										ADMIN	ISTRATI	VE LEA	DTIME:		7 Months	;	PROD	UCTION	LEADTIM	E:	24 Months
	CONT	RACT	DATES:		İ	FY 2004:			F	Y 2005:	Jun-05	5			FY 2006:				FY 2007:		
	DELIV	ERY D	ATES:		I	FY 2004:			F	Y 2005:	Jun-07	•			FY 2006:				FY 2007:		
INSTALLATION SCHEDULE:	PY	_		1	2 <u>FY</u>	<u>06</u> 3	4		1	<u>FY</u> 2	<u>07</u> 3	4		1	2 <u>FY</u>	08 3	4				
INPUT											2	2 1									
OUTPUT											1	1		1							
INSTALLATION SCHEDULE:			1	<u>F</u>	<u>Y 09</u> 3	4		1	<u>FY</u> 2	<u>10</u> 3	4	_	1	2 2	<u>Y 11</u> 3	4	_		<u>TC</u>		TOTAL
INPUT																					3

Notes/Comments

OUTPUT

*Production lead time varies due to differing equipment at each location.

Exhibit P-3a, Individual Modification Program Unclassified

Classification

3

MODIFICATION TITLE: Submarine Enhanced Emergency Alert System (SEEAS) February 2006

W4014 COST CODE:

MODELS OF SYSTEMS AFFECTED: AN/BST-1 transmitter buoy DESCRIPTION/JUSTIFICATION: Replaces AN/BST-1 transmitter buoy

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																					
	PY	•	FY05	•	FY06	•	FY07	•	FY08	•	FY09	•	FY10	•	FY11	•	TC	0.1	TOTAL	•	ı
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	Qty	\$	Qty 28	6.3	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	<u>\$</u>	Qty	\$	Qty	<u>%</u>	Qty 28	6.3	
Training Equipment Production Support Other - DSA Shore Pre-Design Installation Design				0.3																0.3 0.0	
Installation of Hardware PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP	0	0.0	0	0.0	0	0.0	16	0.5	12	0.3	0	0.0	0	0.0	0	0.0	0	0.0	28 0 0 28 0 0 0 0 0 0	0.8 0.0 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0	
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.5		0.3		0.0		0.0		0.0		0.0		8.0	
TOTAL PROCUREMENT COST		0.0		6.6		0.0		0.5		0.3		0.0		0.0		0.0		0.0		7.4]
METHOD OF IMPLEMENTATION:										ADMIN	STRATI	/E LEA	DTIME:		10-12 Mc	onths	PRODU	JCTION	LEADTIM	E:	18 Months
	CONT	RACT	DATES			FY 2004:			ı	FY 2005:	Aug-05				FY 2006:				FY 2007:		
	DELIV	/ERY D	ATES:			FY 2004:			ı	Y 2005:	Feb-07				FY 2006:				FY 2007:		
INSTALLATION SCHEDULE:	PY	-		11	2 <u>FY</u>	<u>' 06</u> 3	4		1	<u>FY</u> 2	<u>07</u> 3	4	=	1	<u>FY</u> 2	<u>08</u> 3	3 4				
INPUT										4	6	6		6	6						
OUTPUT											4	6		6	6	6	;				
INSTALLATION SCHEDULE:			1	<u>F</u> 2	<u>Y 09</u> 3	4	<u>.</u> .	1	<u>FY</u>	<u>′10</u> ! 3	4	-	1	2 E	<u>Y 11</u> 3	4	_		<u>TC</u>		<u>TOTAL</u>
INPUT																					28
OUTPUT																					28

Notes/Comments: Installation must coordinate with Ship, Submersible, Ballistic, Nuclear (SSBNs) availability schedule still in process.

Exhibit P-3a, Individual Modification Program Unclassified Classification

																															DATE	=					
									P	PRO	DUO	CTIC	ON S	CH	EDL	JLE															ı			F	-ebru	ary 20	06
																									(D	OD E	хніві	T P-2	21)		ı					•	
APPRO	PRIATION/BUDGET ACTIVITY														P-1 ľ	TEM N	IOME	NCL.	ATUR	E												S	UBH	EAD N	NO.		
OP,N - E	BA2 COMMUNICATIONS & ELECTRONIC EQU	JIPMENT														3	10700	Sub	marin	e Broa	adcas	t Sup	port										52	2W4			
			s		ACCEP	BAL		FISC	AL YE	٩R	06										FISC	AL YE	AR	0	7							FISCAL	L YEA	٩R	80		
COST	ITEM/MANUFACTURER		E	PROC	PRIOR	DUE		CY					CAL	ENDA	R YE	٩R	06							CALE	NDAR	YEAR		07				С	ALEN	IDAR Y	/EAR		08
CODE			R	QTY	то	AS OF	0		D	-	F N		M	J	J		s c							М	J		s		N					A M		J	Α
			٧		1-Oct	1-Oct	С				E A	P	A		U		E			Α				Α								E		P A		U	U
		FY					Т	٧	C	N I	B R	R	Y	N	L	G	P 1	٠ ١	C	N	В	R	R	Υ	N L	G	Р	Т	٧	С	N	В	R F	R Y	N	L	G
W4008	SUBMARINE BROADCAST UPGRADES:																																		Ш_		
	AN/FRT-72's*	04		4						:	2			2																							
**	Bushings/Insulators*	05		1		1																			1												
	SUBOPAUTH**	05		7	7	0																															
	SUBOPAUTH**	06		2		2			Α					2																							
**	AN/FRT-95A*	05		3		3																			2	1											
W4014**	SEEAS	05		28		28															2	2	2	2	2 2	2	2	3	3	3	3						
-																																					
	**Issue 72114/FY06 Termination of ECARP - U	Jse FY05 fund	ing to	financ	ce FY07	RQMTS	ост	NOV	DEC J	IAN FI	EB MA	R AP	R MAY	JUN	JUL	AUG	SEP OC	T N	V DEC	JAN	FEB	MAR	APR	MAY	IUN JU	L AUG	S SEP	OCT	NOV	DEC	JAN	FEB M	AAR A	PR MAY	Y JUN	JUL	AUG S

		1	PRODUCTION RATI	Ē.		PROCUREMEN	IT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
W4008 Submarine Broadcast Upgrades	Various									1
W4014 SEEAS	NUWC Keyport									

P-1 # 76 11 of 11

Exhibit P-21 Production Schedule

Unclassified

Classification

REMARKS: *Quantity varies by site due to differing equipment configurations

CLASSIFICATION

BUDGET ITEM JUSTIFIC	ATION SHEE	ĒΤ				DATE			Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELI		PMENT		P-1 ITEM NOME 313000 Submari		ns			SUBHEAD 52	L0
	PY	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY										
COST (in millions)		\$98.091	\$126.724	\$87.900	\$84.753	\$78.739	\$119.196	\$158.306	Cont.	Cont.

PROGRAM COVERAGE: The Submarine Communications Program mission is to create a common, automated, open system architecture radio room for all submarine classes. The program provides for the procurement and installation of systems incorporating the technical advances of network centric warfare to allow the submarine force to communicate as part of the Battle Group. The program addresses the unique demands of submarine communications, obsolescence issues and higher data rate requirements.

ANTENNA MODIFICATIONS (L0035) - Antenna modifications provides for the procurement and installation of field change kits to support both increases in system capability and sustainment of existing equipment. These modifications address Very Low Frequency (VLF) performance, Mid Frequency/High Frequency (MF/HF) efficiency, Ultra High Frequency (UHF) antenna efficiency and increased data rate capability with the UHF multifunction mast upgrade, increased reliability and maintainability, decrease vulnerability, and cost effective technology insertion. Modifications are applicable to all Ship, Submersible, Nuclear/Ship, Submersible, Ballistic, Nuclear (SSN/SSBN) classes and are implemented on a Fleet priority basis.

TIME and FREQUENCY DISTRIBUTION SYSTEM (TFDS)/BSQ-9 (V) (L0078) - The TFDS/BSQ-9 (V) provides precision frequency and Precision Time and Time Interval (PTTI) signals that are synchronized to Universal Coordinated Time (UTC) via the Global Positioning System (GPS). The TFDS/BSQ-9 (V) amplifies and distributes external precision source signals to communications, navigation, electronic warfare, combat, and ship control systems onboard all classes of submarines. The TFDS/BSQ-9 (V) provides improved reliability and lower life cycle cost over the older Cesium Standards. Shore site variants are funded by N6. This procurement supports LOS ANGELES, SEAWOLF, and OHIO class submarines.

Outboard Electronics (OE)-538/BRC & OE-592/BRC ANTENNA GROUP (IMPROVED AN/BRA-34) (L0080) - The OE-538/BRC antenna group provides an improved multifunctional combined communications, navigation, and Identification Friend or Foe (IFF) mast mounted antenna group and replaces the AN/BRA-34 and OE-207/BRC antennas. The OE-538/BRC provides the SSN688, SSN21, and the OE-592/BRC provides the OHIO class (SSBN) submarines with a mast mounted, multifunction antenna with greater reliability than the current AN/BRA-34 and OE-207/BRC antennas and supports the additional capabilities of high frequency broadband, Demand Assigned Multiple Access (DAMA) operation, and Advanced Digital Waveform (ADW). The Radio Frequency Distribution and Control System (RFDACS) technology update brings Commercial Off-The-Shelf (COTS) functionality and supportability to the OE-538/BRC system (FY05 and prior - RFDACS is funded under OE-538. RFDACS funded under CSRR FY06 - FY11.) The RFDACS Network Centric Architecture enables the radio room control Local Area Network (LAN) to remotely interface with the functions necessary for the user to operate the OE-538/BRC antenna group.

Exhibit P-40, Budget Item Justification Unclassified

Classification

P-1 Shopping List-Item No 77 - 1 of 13

P-1 # 77 1 of 13

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)	DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	313000 Submarine Communications	52L0

COMMON SUBMARINE RADIO ROOM (CSRR) (L0084) - The CSRR is a completely interoperable submarine communications system operating within the FORCENET architecture, which provides consistent and reliable two-way, modern, Internet Protocol (IP) connectivity to joint and combined forces. This evolutionary system achieves unmatched capability, cost reduction, and future technology integration via a multimedia, circuit sharing, and Commercial OFF-The-Shelf (COTS) based open architecture that serves as the shipboard automated communications control system. The CSRR leverages investment in VIRGINIA External Communication System (ECS) Shipbuilding Conversion, Navy (SCN funded) to modernize/update and provide a common functional baseline, as well as commonality of hardware and software across all submarine classes. Procurement in this line is for the radio room workstations, chassis, common power supplies, power distribution units, cabling, mounting kits and ancillary components required to integrate submarine communication equipment. The Radio Frequency Distribution and Control System (RFDACS) technology update brings COTS functionality and supportability to the OE-538/BRC system (RFDACS is funded under CSRR FY06 - FY11). This procurement supports LOS ANGELES, SEAWOLF, VIRGINIA and OHIO class submarines.

SUBMARINE HIGH DATA RATE (SubHDR) SATELLITE COMMUNICATIONS SYSTEM (L0087) - The Submarine HDR system provides submarines with antennas and terminals that have the bandwidth, gain, and flexibility to meet the stated Commander, Submarine Force, United States Atlantic Fleet/Commander, Submarine Force, US Pacific Fleet (COMSUBLANT/COMSUBPAC) requirements for HDR communications in the Super High Frequency (SHF) and Extremely High Frequency (EHF) frequency spectrums.

ADVANCED HDR (L0088) - The Advanced Submarine HDR antenna provides submarines with antennas that have the bandwidth, gain, and flexibility to meet the stated COMSUBLANT/COMSUBPAC requirements for HDR communications in wideband frequency spectrums. This new antenna significantly improves effective antenna aperture to reduce satellite resource loading and increases bandwidth over current wideband antennas to meet submarine communications requirements for future satellite architectures. It also provides Full Duplex Ka Band not provided by the SubHDR system. RDT&E (N) Program Element - PE 0604503N pertains.

SUBMARINE TACTICAL INTEGRATED DIGITAL SYSTEM (Submarine Local Area Network (SubLAN)) (L0097) - Funds a robust shipboard backbone Information Technology (IT) network with multiple classification enclaves that, along with the SubHDR antenna and Automated Digital Network System (ADNS), provides end-to-end wideband connectivity to the global Defense Information System Networks (DISN) (Secret Internet Protocol Router Network and Nonclassified Internet Protocol Router Network). SubLAN is designed in accordance with the IT for the 21st Century (IT21) fleet initiative, and thus SubLAN will support greatly improved connectivity to, and interoperability with, the carrier battlegroup (CVBG) commander--thereby achieving Network-Centric Warfare--and with shore commands. The SubLAN network is enhanced for mission-critical tactical applications, and as such SubLAN forms the medium that will interconnect Sonar, Combat, Electronic Surveillance Measures, Radio, etc. and permit the seamless exchange of warfighting tactical data between these systems and with the CVBG commander. The SubLAN tactical backbone replicates the functionality of the United States Ship (USS) Virginia class Architecture network, allowing backfit of Virginia class tactical subsystem modernization into existing submarines. The SubLAN shipboard IT infrastructure is being designed as an all-COTS, open-system architecture such that it will permit other electronic subsystem programs to rely on SubLAN for subsystem interconnectivity (rather than having each subsystem install its own IT network); the revolutionary approach of treating the shipboard network as a basic utility (like water, power and lighting) will support the efficient and economic modernization of the various electronic subsystems.

DESIGN SERVICES ALLOCATION (DSA) (L0777) - Design work and engineering associated with ship alterations.

CONGRESSIONAL PLUS UP (L0999) Replace/Upgrade LF Awase, Japan Helix House

	COST ANALYSIS				DATE						Febru	ary 2006
	IATION ACTIVITY	ENT								SUBHEAL	_	,
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIPM	ENI							ļ		52L0	
0007		15	PY		FY 200			FY 2006	TOTAL		FY 2007	
COST	ELEMENT OF COST	ID CODE	TOTAL	QTY	UNIT	TOTAL COST	QTY	UNIT	TOTAL COST	QTY	UNIT	TOTAL COST
L0035	ANTENNA MODIFICATIONS (1)	Α		VAR		3,252	VAR		3,604	VAR		3,915
L0078 L0080	TFDS/BSQ-9 (V) (2) OE-538/BRC/RFDACS (3)	A		5 19	347.6 946.7	1,738 17,987	6 16	269.5 444.7	1,617 7,116	2 19	436.1 523.9	872 9,955
L0084	COMMON SUBMARINE RADIO ROOM					24,442			29,954			33,165
	CSRR-SSN 21, 22 CSRR-SSN 21, 22, 23 Upgrades (4) CSRR-SSBN 726/RFDACS (OHIO) (5) CSRR-SSBN 726/RFDACS (OHIO) Upgrades (6) CSRR Non-Class Specific (7)	A A B A		1 2	2,175.0 11,133.6	2,175 22,267	2 4	1,306.0 6,835.6	2,612 27,342	4	7,356.5	424 29,426 2,226 1,089
L0087	HIGH DATA RATE ANTENNA High Data Rate Antenna (8)	A A		7	3,816.6	26,716 26,716	15	3,448.9	51,734 51,734			1,554 1,554
L0097	SubLAN (9) Equipment ShipALT	Α		22	48.1	3,280 1,059 2,221	26	51.2	3,556 1,331 2,225	30	78.2	4,672 2,347 2,325
L0555	PRODUCTION SUPPORT					4,440			5,121			3,488
L0777	INSTALLATION EQUIPMENT DSA FMP INSTALL			VAR VAR		16,236 1,477 14,759	VAR VAR		23,022 1,868 21,154	VAR VAR		30,279 2,177 28,102
LO999	LF Awase, Japan Helix House (10)								1,000			
	TOTAL SPAWAR CONTROL					98,091			126,724			87,900
	TOTAL NAVSEA CONTROL											
	Consolidated Control											
Remarks:	1) Antenna Modifications Procure tech refresh/upgra 2) TFDS FY05 - FY07 funds include procurement of 3) RFDACS procurements realigned under CSRR be 4) FY05 - FY06 funds procure Increment 1 Moderniz FY07 funds procure ShipALT to support Increment 2 5) FY05 CSRR unit cost includes TRID (ShipALT) oc 6) FY07 funds procure ShipALT to support Increment 7 FY07 funds procure Multi-Purpose Reconfigurable 8) High Data Rate Antenna FY06 funds included for (1) Antenna Pedestal Group Equipment. FY 07 pro (9) SubLAN unit cost reflects different configuration (10) Congressional Plus up Replace/Upgrade LF Aw	ethernet co eginning in lation kits to upgrade. lost and Engat 2 upgrade e Training S (1) Mast To ocurement	onnectivity FY06. o upgrade S gineering C e. System (MF est Station funds includes.	engineering SSN 21, 22 hange Prop RTS). + FY07 fur de enginee	g change pr	costs which are r	Interactive	Electronic to a milesto	Training M			'

A. DATE PROCUREMENT HISTORY AND PLANNING February 2006 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 313000 Submarine Communications 52L0 CONTRACTOR CONTRACT RFP DATE SPECS DATE COST **ELEMENT OF COST** FY AND LOCATION ISSUE AWARD OF FIRST QTY UNIT AVAILABLE REVISIONS METHOD CODE LOCATION & TYPE OF PCO DATE DATE Delivery COST NOW **AVAILABLE** L0078 TFDS/BSQ-9 (V) C/FFP/OPT SSC-SD 05 Brandywine Com, CA Jan-05 Oct-05 5 347.6 YES N/A Brandywine Com, CA C/FFP/OPT SSC-SD Oct-03 Feb-06 Nov-06 6 YES N/A 06 269.5 07 Brandywine Com, CA C/FFP/OPT SSC-SD Jan-07 Oct-07 2 436.1 YES N/A L0080 OE-538/BRC/RFDACS (1) 05 Sippican/GSM SAJV C/FFP/OPT NUWC 946.7 YES N/A Jan-05 Jan-06 19 06 Sippican/GSM SAJV C/FFP/OPT NUWC Oct-03 Dec-05 Dec-06 16 444.7 YES N/A 07 Sippican/GSM SAJV C/FFP/OPT NUWC Jan-07 Jan-08 19 523.9 YES N/A L0087 HIGH DATA RATE ANTENNA 05 Raytheon, MA SS/FFP/OPT **SPAWAR** 3,816.6 YES N/A Jun-05 Sep-06 Sep-03 Raytheon, MA SS/FFP/OPT **SPAWAR** Feb-06 May-07 3,448.9 YES N/A 06 15 L0097 SUBMARINE TACTICAL INTEGRATED DIGITAL SYSTEM 05 SSC Chasn Code J854 SSC Chasn Dec-04 Mar-05 22 48.1 YES N/A WX 26 N/A (SubLAN) 06 SSC Chasn Code J854 WX SSC Chasn Dec-05 Mar-06 51.2 YES 07 SSC Chasn Code J854 WX SSC Chasn Dec-06 Mar-07 30 78.2 YES N/A

D. REMARKS

TFDS: FY05 funding includes engineering change order for Ethernet Connectivity. FY06 - FY07 funding includes procurement of ethernet cards.

OE-538: FY05 unit cost includes RFDACS. (RFDACS realigned under CSRR in FY06 - FY11.)

SubHDR: FY06 funds included for (1) Mast Test Station and FY 07 funds included for (1) Antenna Pedestal Group Equipment. FY08 Support Equipment funds antenna handling gear and antenna pedestal group.

February 2006 MODIFICATION TITLE: Time & Frequency Distribution System (TFDS)

COST CODE
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION: Installation of Time & Frequency Distribution System (TFDS)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

ν που τεν τεν το το το το το το το το το το το το το	Prior Yrs	<u>s</u> \$	E Qty	<u>Y 05</u> \$	Qty	<u>Y 06</u> \$	Qty	<u>Y 07</u> \$	F` I Qty	<u>Y 08</u> \$	F' Qty	<u>Y 09</u> \$	E <u>F`</u> I Qty	<u>Y 10</u> \$	<u>FY</u> Qty	<u>11</u> \$	TO Qty	<u> </u>	To Qty	otal \$ I	
RDT&E					-		ĺ						,				,				
PROCUREMENT: Kit Quantity	65	11.612	5	1.738	6	1.617	2	0.872	0	0.220	0	0.205	0	0.049	0	0.051			78	16.364	
Equipment - TFDS	65	11.069	5	1.053	6	1.084	2	0.580											78	13.786	
Equipment - Ethenet Cards				0.450	36	0.383	10	0.133	10	0.156	18	0.205	4	0.049	4	0.051			-	1.427	
Installation Kits	57	0.543	8	0.235	5	0.150	5	0.159	2	0.064									77	1.151	
Data			(See	Note 2)	(See	Note 2)	(See	Note 2)	(See	Note 2)	(See	Note 2)	(See	Note 2)	(See I	Note 2)					
Training Equipment Support Equipment																					
Production Support		0.48		0.04		0.03		0.04		0.04		0.00								0.624	
Interm Contractor Support										***											
Other (DSA)		0.037		0.100																0.137	
Installation of Hardware	57	1.932	8	0.227	5	0.0	6	0.0	2	0.0									78	2.158	
PRIOR YR EQUIP FY 04 EQUIP	57	1.932	8	0.227															57 8	1.932 0.227	
FY 04 EQUIP FY 05 EQUIP				0.227 Note 1)	5	0.0													5	0.227	
FY 06 EQUIP			(500	Note 1)		Note 1)	6	0.0											6	0.000	
FY 07 EQUIP					(Note 1)	2	0.0									2	0.000	
FY 08 EQUIP							,		(See	Note 1)											
FY 09 EQUIP																					
FY 10 EQUIP FY 11 EQUIP																					
FY TO EQUIP																					
TOTAL INSTALLATION COST		1.969		0.327															78	2.295	
TOTAL PROCUREMENT COST		14.058		2.101		1.651		0.910		0.259		0.205		0.049		0.051			78	19.284	
METHOD OF IMPLEMENTATION:										ADMINIS	STRATIV	'E LEADTI	ME:	3 months	5	PRODU	CTION LE	ADTIME	:	9 months	
	CONTR	ACT DAT	ES:	FY 2004	:	Feb-04			FY 2005	5:		Jan-05		FY 2006			Feb-06		FY 2007	:	Jan-07
	DELIVE	RY DATE	S:	FY 2004		Nov-04			FY 2005	5:		Oct-05		FY 2006:			Nov-06		FY 2007	:	Oct-07
									F)	<u> 7 06</u>				FY	07				FΥ	′ 08	
INSTALLATION SCHEDULE:	PY	_						1	2	3	4	_	1	2	3	4		1	2	3	4
INPUT	65								3	2				3	3				2		
OUTPUT	65								3	2				3	3				2		
INSTALLATION SCHEDULE:				FY	09				F`	<u> </u>				FY	11						
			1	2	3	4		1	2	3	4	_	1	2	3	4		TC	-		TOTAL
INPUT																					78
OUTPUT																					78
N-4/0																					10

Notes/Comments:
1) TFDS procured in FY04 - FY07 are installed by CSRR Radio Room (Cost Code L0777) with the exception of four (4) units procured in FY04 and one (1) unit in FY 06.
2) FY05 funds procure engineering change order for Ethernet Connectivity. FY06 - FY11 equipment includes funds for Ethernet Cards funds procured to provide ethernet connectivity.
3) 26 prior year install kits were funded via the installation line and are not accounted for separately.

MODIFICATION TITLE:

COST CODE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Installation of OE-538/BRC

OE-538/BRC/RFDACS

L0080

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	Prior Yrs	<u>s</u> \$		<u>Y 05</u> \$	I Qtv	<u>Y 06</u> \$	F\ Qtv	<u>/ 07</u> \$	<u>F</u> Qtv	Y 08 \$	<u>FY</u> Qtv	<u>09</u> \$	FY Qtv	10 \$	<u>FY</u> Qtv	<u>'11</u> \$	Qtv	<u>C</u> \$		otal \$		
RDT&E	Qty	ه 1.221	Qty	Þ	Qty	Đ	Qiy	Ф	Qty	ð	Qiy	Þ	Qty	Þ	Qly	Þ	Qty	Ð	Qly	1.221		
PROCUREMENT: Kit Quantity	45	56.845	19	17.987	16	7.116	19	9.955	6	4.778		0.673		2.958		9.183			105	109.495		
Equipment - Mast Antennas	45	46.736	19	13.135	16	6.373	19	8.731	6	3.591									105	78.566		
Equipment - Antenna Control Units	28	3.448	11	2.114	4	0.573	7	0.92702											50	7.061		
ACU Installation Kits	25	0.977	11	0.466	4	0.170	7	0.297											47	1.910		
Equipment - CCA upgrade kits Equipment - Ku Band/JTRS/WNW upgrade kits									47	1.187				4.500	0.5	0.400			0.5	1.187		
Equipment - Ru Band/JTRS/WNW upgrade kits Equipment - RFDACS (See Note 2)	7	5.684	2	2.272					(See	Note 3)			(See N	1.590	25 (See N	9.183			25 9	10.773 7.956		
Data	'	0.004	_	2.272									(000)	1010 4)	(000)	1010 0)				7.000		
TRID (ShipALT)												0.673		1.368						2.041		
Training Equipment																						
Support Equipment Production Support		1.7		1.152		0.5		0.6		0.4		0.3		0.3		0.3				5.347		
Other (DSA)		0.758		0.480		0.948		0.891		0.334		0.200		0.5		0.5				3.611		
Installation of Hardware (See Note 1)	35	6.001	8	0.931	17	2.764	14	2.363	15	2.703	6	1.420		1.437		1.817			95	19.436		
PRIOR YR EQUIP	35	6.001																	35	6.001		
FY 04 EQUIP			8	0.931		0.704													8	0.931		
FY 05 EQUIP FY 06 EQUIP					17	2.764	14	2.363											17 14	2.764 2.363		
FY 07 EQUIP							'-	2.505	15	2.703									15	2.703		
FY 08 EQUIP											6	1.177							6	1.177		
FY 09 EQUIP												0.243		1.005						1.248		
FY 10 EQUIP FY 11 EQUIP											(See N	Note 6)	(Caa N	0.432 lote 6)		1.293 0.524				1.725 0.524		
FY TO EQUIP													(See N	Note 6)	(See N	0.524 Note 6)				0.524		
TOTAL INSTALLATION COST		6.759		1.411		3.712		3.254		3.037		1.620		1.437	(000)	1.817			95	23.047		
TOTAL PROCUREMENT COST		65.323		20.550		11.333		13.834		8.167		2.620		4.733		11.329			105	137.888		
METHOD OF IMPLEMENTATION:										ADMINIS	TRATIVE	ELEADTI	ME:	3 months		PRODUC	TION LI	EADTIME	: '	12 months		
	CONTR	ACT DATE	ES:		FY 2004	1:	Mar-04	ŀ		FY 2005:			Jan-05		FY 2006	:		Dec-05		FY 2007		Jan-07
	DELIVE	RY DATES	S:		FY 2004	4:	Mar-05	5		FY 2005:			Jan-06		FY 2006	:		Dec-06		FY 2007		Jan-08
									<u>E</u>	Y 06				FY	07				<u>E`</u>	Y 08		
INSTALLATION SCHEDULE - Mast Antennas:	PY	=						1	2	3	4	-	1	2	3	4		1	2	3	4	
INPUT	42							1	6	6	5		2	6	6			2	6	6	1	
OUTPUT	42							1	6	6	5		2	6	6			2	6	6	1	
				FY	<u>′ 09</u>				F	Y 10				FY	11							
INSTALLATION SCHEDULE:			1	2	3	4	-	1	2	3	4	-	1	2	3	4		TC			<u>TOTAL</u>	
INPUT			1	3	2																95	
OUTPUT			1	3	2																95	

February 2006

¹⁾ Nine (9) OE-538/BRC units are assigned to a rotatable pool to accommodate equipment refurbishment and do not require installation kits or funding. Pool assets were procured as follows:

one (1) in FY00, one (1) in FY03, one (1) in FY05, two (2) in FY06 and four (4) in FY07. One (1) test asset procured in FY05 does not require installation.

²⁾ RFDACS procurements realigned under CSRR beginning in FY06.

³⁾ FY08 funds procure Circuit Card Assembly upgrade kits for Very High Frequency (VHF) multifuntion mode.
4) FY10 funds include production start up nonrecurring engineering for fabrication of Ku Band/Joint Tactitical Radio System (JTRS)/Wideband Netted Waveform (WNW) upgrade kits.

⁵⁾ FY11 funds procure Ku Band/Joint Tactitical Radio System (JTRS)/Wideband Netted Waveform (WNW) upgrade kits.

⁶⁾ Installation funds in FY09 - FY11 fund fielding of upgrade kits mentioned in Notes 3 and 5.

MODIFICATION TITLE: CSRR-SSN 21, SSN 22, SSN 23 L0084

COST CODE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of CSRR and upgrades on SSN 21, SSN 22 and SSN 23

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																				
		ior Yrs		Y 05		<u>/ 06</u>		<u>′ 07</u>		Y 08		<u>/ 09</u>		<u>Y 10</u>		<u>Y 11</u>	1	<u>C</u>		otal _
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT:	2	20.839		2.175		2.612		0.424		2.332		1.908		2.862					2	33.152
Kit Quantity																				
Installation Kits Installation Kits Nonrecurring																				
Equipment - CSRR	2	19.329																	2	19.329
Equipment - Modernization kits (Incremen	t 1)		1	2.175	2	2.612													3	4.787
Equipment - Modernization kits (Incremen	t 2)								2	1.696	1	0.848							3	2.544
ShipALT for Increment 2 Equipment - Modernization kits (Incremen	1 2)							0.424		0.636			3	0.000					3	1.060
ShipALT for Increment 3	(3)											1.060	3	2.862					3	2.862 1.060
Engineering Change Proposals	2	1.510										1.000							2	1.510
Data																				
Training Equipment																				
Support Equipment																				
Production Support Interm Contractor Support																				
Other (DSA)																				
Installation of Hardware (See Note 2)	1	0.0	1	3.00								1.060		0.530		2.226			2	6.816
PRIOR YR EQUIP - CSRR	1	0.0	1	3.00															2	3.000
FY 04 EQUIP FY 05 EQUIP	(See	Note 1)																		
FY 05 EQUIP FY 06 EQUIP																				
FY 07 EQUIP																				
FY 08 EQUIP - Increment 2 Mod kits											2	1.060							2	1.060
FY 09 EQUIP - Increment 2 Mod kits													1	0.530					1	0.530
FY 10 EQUIP - Increment 3 Mod kits															3	2.226			3	2.226
FY 11 EQUIP FY TC EQUIP																				
TOTAL INSTALLATION COST				3.000								1.060		0.530		2.226			2	6.816
TOTAL PROCUREMENT COST		20.839		5.175		2.612		0.424		2.332		2.968		3.392		2.226			2	39.968
METHOD OF IMPLEMENTATION:	,									ADMINIS	STRATIV	E LEADTI	IME:	3 months	3	PRODU	CTION L	EADTIM	E:	12 months
	CONTR	RACT DATI	ES:		FY 2004	:				FY 2005:	:				FY 2006	6:				FY 2007:
	DELIVI	ERY DATE:	g.		FY 2004					FY 2005:					FY 2006	۵٠				FY 2007:
	DELIVI	LIKI DAIL	J .		1 1 2004					1 1 2005.	•				1 1 2000	J.				1 1 2007.
										Y 06				FY	07				<u>F</u>	Y 08
INSTALLATION SCHEDULE - CSRR:	PY	_						1	2	3	4	_	1	2	3	4	-	1	2	3
INPUT	2																			
OUTPUT	2																			
INSTALLATION SCHEDULE:			1	2 <u>FY</u>	<u>′ 09</u> 3	4		1	2 <u>F</u>	<u>Y 10</u> 3	4		1	2 <u>FY</u>	<u>11</u> 3	4		TC		TC
							•					_				•	_		_	
INPUT																				

OUTPUT

2

Notes/Comments:

1) FY02 and FY03 units were turnkey procurements requiring no installation costs.

²⁾ Installation quantities and corresponding Input/Output reflect CSRR shipsets only, not modernization kits. Installation funds for modernization kits are included, however.

MODIFICATION TITLE: CSRR-SSBN (OHIO)/RFDACS February 2006

COST CODE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Installation of CSRR/RFDACS and upgrades on SSBN (OHIO) Class submarines

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

THANCIAL FLAN. (\$ IIT IIIIIIO115)	Pri I Qtv	ior Yrs \$	I Qty	<u>Y 05</u> \$	I Qtv	<u>Y 06</u> \$	Qtv	<u>Y 07</u> \$	Qty	<u>Y 08</u> \$	Qty	Y 09 \$	E Qtv	<u>Y 10</u> \$	Qtv	<u>Y 11</u> \$	Qtv	<u>TC</u> \$	I Qtv	otal \$ I		
RDT&E		1.200				•					Qty	•	Qly	*	Qty	•	,	•		1.200		
PROCUREMENT: Kit Quantity	3	32.644	2	22.267	4	27.342	4	31.652	3	30.258		6.052		12.557		8.710	0	0.000	16	171.483		
Installation Kits																						
Installation Kits Nonrecurring Equipment - CSRR (See Note 1)	3	27.366	2	20.571	4	21.241	4	23.265	3	17.211							0	0.000	16	109.654		
Equipment - Modernization kits (Increment 2)	3	27.300		20.371	4	21.241	4	23.203	4	3.892	5	4.462	9	7.893			U	0.000	18	16.247		
ShipALT for Increment 2								2.226		0.909				0.040		0.740		5 400	4.0	3.135		
Equipment - Modernization kits (Increment 3) ShipALT for Increment 3												1.590	4	3.816 0.848	8	8.710	6	5.400	18	17.926 2.438		
Equipment - RFDACS (See Note 2)					4	6.101	4	6.161	3	8.245		1.000		0.040					11	20.507		
Equipment Nonrecurring Production Facility Establishment		2.078 1.500																		2.078 1.500		
TRID (ShipALT) (See Note 3)		1.700		1.696																3.396		
Engineering Change Proposals/Notices		1.150		0																		
Data/Logistics Training Equipment		2.000																				
Support Equipment																						
Production Support Other (DSA)		1.6		1.2 0.423		1.2		1.2 0.636		1.2 0.538		0.1		0.2		0.2				6.897		
Installation of Hardware - CSRR (See Note 4)	1	1.476	2	2.451	2	0.432 7.382	4	9.945	4	10.344	7	0.570 8.956	5	0.050 2.902	13	0.060 8.304	14	5.600	52	2.710 57.360		
PRIOR YR EQUIP - CSRR	1	1.476																	1	1.476		
FY 04 EQUIP - CSRR FY 05 EQUIP - CSRR			2	2.451	2	7.382													2 2	2.451 7.382		
FY 06 EQUIP - CSRR					_	7.002	4	9.945											4	9.945		
FY 07 EQUIP - CSRR FY 08 EQUIP - CSRR									4	10.344	3	6.687							4	10.344 6.687		
FY 08 EQUIP - CSRR FY 08 EQUIP - Increment 2 Mod kits											4	2.269							3	2.269		
FY 09 EQUIP - Increment 2 Mod kits													5	2.902						2.902		
FY 10 EQUIP - Increment 2 Mod kits FY 10 EQUIP - Increment 3 Mod kits															9 4	5.336 2.968				5.336 2.968		
FY 11 EQUIP - Increment 3 Mod kits															-	2.000	8	5.600		5.600		
FY TC EQUIP - CSRR FY TC EQUIP - Increment 3 Mod kits																	6	4.200	0	0.000 4.200		
TOTAL INSTALLATION COST	-	1.476		2.874		7.814		10.581		10.882		9.526		2.952		8.364	ь	5.600	52	60.070		
TOTAL PROCUREMENT COST		35.707		26.316		36.355		43.457		42.390		15.725		15.663		17.236	TION 1	5.600	16	238.450		
METHOD OF IMPLEMENTATION:										ADMINIS	IRATIVE	LEADTIM	E:	3 months		PRODUC	JION L	EADTIME:		12 months		
(See Note 5)	CONTR	RACT DATE	ES:		FY 2004	l :	VAR			FY 2005:		VAR			FY 2006	6:	VAR			FY 2007:	VA	.R
	DELIVE	RY DATE	S:		FY 2004	l :	VAR			FY 2005:		VAR			FY 2006	6:	VAR			FY 2007:	VA	.R
INSTALLATION SCHEDULE - CSRR:	PY							1	2 <u>F</u>	<u>Y 06</u> 3	4		1	2 <u>FY</u>	<u>07</u> 3	4		1	2 FY	<u>′ 08</u> 3	4	
INPUT	3	_							1	1		_	<u> </u>	2	1	1	•		3		1	
									'	'				2	'				3		•	
OUTPUT	2							1			1		1			2		2			3	
					′ 09				<u>E</u>	Y 10				FY								
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	-	1	2	3	4		TC			TOTAL	
INPUT					3													0			16	
OUTPUT			1			2		1										0			16	

Notes/Comments:

¹⁾ Each equipment set includes: (2) Q-70 workstations, routers, cables, cable retractors, power distribution panels, cable harnesses, hubs, laptops and human machine interfaces.

²⁾ RFDACS procurements (Funded under OE-538 for FY05 and prior).

³⁾ FY05 TRID (ShipALT) funds engineering change package with completed Hull, Mechanical and Electrical (HM&E) drawings required to install CSRR on Ohio Class submarines. (Funds are required only in FY05 for this effort.)

⁴⁾ Installation quantities and corresponding Input/Output reflect CSRR shipsets only, not modernization kits. Installation funds for modernization kits are included, however.

Exhibit P-3a, Individual Modification Program

⁵⁾ CSRR equipment and integration efforts are procured under various contracts.

MODIFICATION TITLE: CSRR-Non-Class Specific Tech Refresh

COST CODE

L0084

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Installation of CSRR Tech Refresh

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(**************************************	Pric Qty	or Yrs \$	<u>FY</u> Qty	<u>05</u> \$	<u>FY 06</u> Qty \$	FY 0	<u>07</u> \$	<u>FY</u> Qty	<u>′ 08</u> \$	<u>FY</u> Qty	<u>′ 09</u> \$	<u>FY 10</u> Qty \$. 1	<u>FY 11</u> Qty	s I	TC Qty	<u>2</u> s I	<u>To</u> Qty	tal \$		
RDT&E PROCUREMENT: Kit Quantity Installation Kits	1	6.000	Giy	Ψ	aty \$\psi\$	Q.y	1.089	10	2.890	Qty	Ψ	g.ty ψ		-	061	S.I.	Cont.	- Qiy	Cont.		
Installation Kits Nonrecurring Equipment - Tech Refresh Equipment Nonrecurring Equipment TRID (ShipALT)								10 (See	2.118 Note 1)					25 6.0 (See Note	061 1)		Cont.		Cont.		
Data Training Equipment Support Equipment (See Note 2) Other							0.000 1.089		0.000 0.772										0.000		
Production Support Other (DSA)		0.4					0.1		0.2					0).4				1.040		
Installation of Hardware PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP		0.600								10	1.026								Cont.		
FY 07 EQUIP FY 08 EQUIP										10	1.026							10	1.026		
FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP																	Cont. Cont.		Cont. Cont.		
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		0.000 6.400					1.158		3.075		1.026 1.026				448		Cont.		Cont.		
METHOD OF IMPLEMENTATION:		6.400	J.			<u> </u>	1.158			TRATIVE	LEADTIN	ME:				TION LEA			Cont.		
(See Note 3)	CONTR	ACT DATE	ES:		FY 2004:				FY 2005:				FY	2006:					FY 2007:		VAR
	DELIVE	RY DATES	S:		FY 2004:				FY 2005:				FY	2006:					FY 2007:		VAR
INSTALLATION SCHEDULE:	PY	_				_	1	<u>FY</u> 2	<u>′ 06</u> 3	4		1 2	FY 07		4	_	1	<u>FY</u> 2	<u>08</u> 3	4	_
INPUT	1																				
OUTPUT	1																				
INSTALLATION SCHEDULE:			1	<u>FY</u> 2	<u>′ 09</u> 3 4	_	1	<u>FY</u> 2	<u>′ 10</u> 3	4		12	FY 11		4	_	TC			<u>TOTAL</u>	
INPUT																	Cont.			Cont.	
OUTPUT																	Cont.			Cont.	

Notes/Comments:
1) FY08 - FY11 funds procure Tech Refresh with no associated input/output.

²⁾ FY07 - FY08 Support Equipment funds Multi Purpose Reconfigurable Training System (MRTS).

³⁾ CSRR equipment and integration efforts are procured under various contracts.

MODIFICATION TITLE: High Data Rate Antenna (Sub HDR) February 2006

COST CODE L0087

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of High Data Rate Antenna (Sub HDR)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(, , , ,	<u>Pri</u>	ior Yrs		Y 05		Y 06		′ 07		Y 08		′ 0 <u>9</u>	FY 10	FY 1			<u>C</u>		otal	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity	58	24.734 169.929	7	26.716	15	51.734	0	1.554	0	5.089	0	3.542	3.340		2.241	0	0.000	80 (See N	24.734 264.145 lote 1,2)	
Equipment - Sub HDR	58	159.142	7	26.428	15	50.533										0	0.000	80	236.103	
Equipment Nonrecurring Installation Kits (See Note 3) Installation Kits Nonrecurring	51	8.489	(See 2	Note 4) 0.288														53	8.777	
Engineering Change Proposals Data		2.298					(See I	0.292 Note 5)	(See	3.817 Note 5)	(See I	3.542 Note 5)	3.340 (See Note 5)	(See No	2.241 ote 5)				15.530	
Training Equipment Support Equipment (See Note 8) Production Support Interm Contractor Support		3.2		0.6	1	1.201 1.2	1	1.262 0.1		1.272 0.1		0.1	0.1		0.1			2	3.735 5.550	
Other (DSA) Installation of Hardware PRIOR YR EQUIP	43 43	3.922 46.562 46.562	6	0.454 6.505 3.059	6	0.460 8.628	9	0.634 13.988	6	0.442 10.188	0	0.300 0.636	0.181 1.962		0.181 1.962			70 46	6.574 90.432 49.621	
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP			3	3.446	2 4 (See	2.8760 5.7520 Note 7)	1 8 (See I	1.556 12.432 Note 7)	6	10.188	(See I	0.636 Note 6)	1.962 (See Note 6)		1.962			5 5 14 0 0	6.322 7.308 22.620 0.636 1.962 1.962	
FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP													(See Note 6)	(See No				U	1.962	
TOTAL INSTALLATION COST		50.484		6.959		9.088		14.622		10.630		0.936	2.143		2.143			70	97.006	
TOTAL PROCUREMENT COST		223.604		34.231		62.066		16.254		15.837		4.583	5.606		4.519		0.000	80	366.701	
METHOD OF IMPLEMENTATION:										ADMINIST	RATIVE	LEADTIM	IE: 2 months	S P	RODUC	TION L	EADTIME		15 months	acceptance testing
	CONTR	RACT DATE	ES:		FY 2004	:	Jun-04			FY 2005:		Jun-05		FY 2006:			Feb-06	Plus	FY 2007:	
	DELIVE	ERY DATES	S:		FY 2004	:	Sep-05			FY 2005:		Sep-06		FY 2006:			May-07		FY 2007:	
INSTALLATION SCHEDULE:	PY	_						1	<u>FY</u> 2	<u>′ 06</u> 3	4		1 2 <u>FY</u>	<u>′ 07</u> 3	4		1	2 <u>F</u>	<u>Y 08</u> 3	4
INPUT	50								0	0	4		1	5	4		3	3		
OUTPUT	50								0	0	4		1	2	6		3	3	1	
INSTALLATION SCHEDULE:			1	2 <u>FY</u>	<u>′ 09</u> 3	4		1	2 <u>FY</u>	<u>′ 10</u> 3	4		1 2	<u>′ 11</u> 3	4		TC			<u>TOTAL</u>
INPUT																				70
OUTPUT																				70
OUTFUT																				70

- 1) Seven (7) HDR units are assigned to a rotatable pool to accommodate equipment refurbishment and do not require installation funding. Pool assets are procured as follows:
- one (1) in FY00, three (3) in FY04, one (1) in FY05 and two (2) in FY 06. (Congressional Plus up provided for 2 rotatable pool units for the SSBN class- one in FY04 + one in FY05).
- 2) Three (3) Land Based System assets are procured as follows: One (1) in FY98, one (1) in FY901 and one (1) in FY902. These do not require installation funding and are not included on the P-3A installation breakout.
- 3) Installation kits are procured one year in advance of the installs due to Long Lead Material (LLM) requirements.
- 4) Unit cost assumes Ship, Submersible, Guided, Nuclear (SSGN) procurements in FY04 and FY05.
- 5) Engineering Change Proposals include: Mast modification for Wideband Gapfiller System Global Broadcast System (GBS) in FY07 FY10 and SHF/Underwater Explosion (UNDEX) upgrades FY10 FY11.
- 6) Installation funds in FY08 FY11 fund fielding of engineering change orders mentioned in Note 5.
- 7) Four (4) SSGN installs (two in FY06 and two in FY07) do not require install kits.
- 8) FY06 funds included for (1) Mast Test Station and FY 07 funds included for (1) Antenna Pedestal Group Equipment. FY08 Support Equipment funds antenna handling gear and antenna pedestal group.

MODIFICATION TITLE: February 2006

COST CODE MODELS OF SYSTEMS AFFECTED: L0097

SUBMARINE TACTICAL INTEGRATED DIGITAL SYSTEM (SubLAN)

DESCRIPTION/JUSTIFICATION:

Installation of SubLAN

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

THANKOIAE FEAR. (# III IIIIIIIO119)		r Yrs		<u>/ 05</u>		<u>′ 06</u>		07		<u> </u>		<u>/ 09</u>		<u>Y 10</u>		<u>Y 11</u>	I	<u>c</u>		<u>otal</u>		
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PROCUREMENT:	95	47.019	22	3.280	26	3.556	30	4.672	26	1.976	29	2.503	30	2.902	20	2.140	Cont	Cont	Cont	Cont		
Kit Quantity	(See N	Note 1)																				
Installation Kits																						
Installation Kits Nonrecurring Equipment - TIDS	9	30.379																		Cont.		
Equipment - SubLAN PCs	15	1.410	12	0.759	19	1.121	9	0.540	4	0.244	5	0.315					Cont	Cont	Cont	4.389		
Equipment Nonrecurring																						
SSN688 GFI/ShipALT Production SSN21 GFI/ShipALT Production		7.373 3.369		0.587 0.405		1.275 0.020		0.300		0.000										9.535 5.639		
SSBN726 GFI/ShipALT Production		1.421		0.405		0.020		1.845 0.180		0.000										3.055		
SSGN GFI/ShipALT Production		0.588		0.705		0.000		0.000												1.293		
SSBN774 GFI/ShipALT Production		1.421																				
Other Equipment - PC Augment Other Equipment - ER Drop Augment	70 (See N	2.179 Note 3)	10	0.300	7	0.210	4	0.124	7	0.217	4	0.128	3	0.067	0	0.000			70 35	2.179 1.046		
Other Equipment - ER Drop Augment Other Equipment - PC Replacement	(366)	Note 3)	10	0.300	′	0.210	17	1.683	, 15	1.515	20	2.060	27	2.835	20	2.140			99	10.233		
Other Equipment - ER Server Augment															0	0.000			0	0.000		
Other Equipment - ER Aug Switch/Router Replacement															0	0.000			0	0.000		
Other Equipment Training Equipment																						
Support Equipment - EDM (See Note 4)	1	0.300	0.0	0.000															1	0.300		
Production Support		5.5		1.5		2.139		1.454		1.594		1.468		1.675		3.797	Cont	Cont		19.106		
Interm Contractor Support				0.000		0.000		0.040		0.045		0.000		0.045		0.000						
Other (DSA) Installation of Hardware	18	18.456	15	0.020 1.645	30	0.028 2.380	24	0.016 1.806	29	0.045 3.697	32	0.020 2.424	26	0.015 2.007	21	0.000 0.945	12	0.380	207	33.740		
PRIOR YR EQUIP	9	18.150	13	1.040	30	2.500	24	1.000	23	5.037	32	2.727	20	2.007	21	0.343	12	0.500	9	18.150		
FY 04 EQUIP	9	0.306	6	0.000															15	0.306		
FY 05 EQUIP FY 06 EQUIP			9	1.645	13 17	1.700 0.680	9	1.388											22 26	3.345 2.068		
FY 06 EQUIP FY 07 EQUIP					17	0.680	15	0.418	15	1.910									30	2.328		
FY 08 EQUIP							10	0.410	14	1.787	12	0.909							26	2.696		
FY 09 EQUIP											20	1.515	9	0.694					29	2.209		
FY 10 EQUIP FY 11 EQUIP													17	1.313	13 8	0.585 0.360	12	0.380	30 8	1.898 0.360		
FY TC EQUIP															0	0.360	Cont	Cont	Cont	Cont		
TOTAL INSTALLATION COST		18.456		1.665		2.408		1.822		3.742		2.444		2.022		0.945	Cont	0.380	Cont.	Cont.		
TOTAL PROCUREMENT COST		70.932		6.467		8.103		7.948		7.312		6.415		6.599		6.882		Cont		Cont		
NAVSEA Control Consolidated Control		54.960 125.892																				
METHOD OF IMPLEMENTATION:		120.032			l		l			ADMINIS	STRATIV	E LEADT	IME:	3 months	5	PRODU	CTION L	EADTIME	<u> </u>	3 months		
	CONTRA	ACT DATE	EQ.		FY 2004		Dec-03			FY 2005:			Dec-0	1	FY 2006	3.		Dec-05		FY 2007		Dec-06
	DELIVE	RY DATE:	5:		FY 2004	:	Mar-04			FY 2005:			Mar-0	0	FY 2006	o:		Mar-06		FY 2007		Mar-07
									F`	<u> </u>				FY	07				FY	′ 08		
INSTALLATION SCHEDULE:	PY	-						1	2	3	4	_	1	2	3	4	_	1	2	3	4	_
INPUT	33							6	7	9	8		4	8	6	6		7	8	7	7	
																-						
OUTPUT	33							6	7	9	8		4	8	6	6		7	8	7	7	
				FY	09				<u>F`</u>	<u> </u>				<u>FY</u>	<u>11</u>							
INSTALLATION SCHEDULE:			1	2	3	4	-	1	2	3	4	-	1	2	3	4	-	TC			TOTAL	
INPUT			6	8	9	9		4	6	8	8		5	5	5	6		Cont			Cont	
OUTPUT			6	8	9	9		4	6	8	8		5	5	5	6		Cont			Cont	

Notes/Comments:
1) Includes class ShipALT production charge for SSN 688, SSN21, SSBN726, SSGN726 and SSN774 for SubLAN
2) Quantities refer to unit level submarines. Requires no install costs.

³⁾ Sub Ship PC Upgrades (L0094) has been included in L0097 in FY 04 and beyond. PCs are part of the ship set and not procured separately. 4) Test assets. No install costs associated.

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	RIATION/BUDGET ACTIVITY														P-					TURE																D NO).		
OP,N - B	A2 COMMUNICATIONS & ELECTRONIC EQUIPM	/IENT														313	3000	Subn	narine	e Com															52L0				
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L0078	TFDS/BSQ-9	05		5		5	1	1	1	1	1																												
		06		6		6					Α								1	1	1	1	1	1								Ш							
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L0080	OE-538/BRC	05	\perp	19		19	1			2	2	2	2	2	2 2	2 2	2	1	<u> </u>		_	_	_	_	_	_	_			4	₩	Щ				\rightarrow			-
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L0087	HIGH DATA RATE ANTENNA	05		7		7											2	2	2	1		-				_		_			+	\vdash	\rightarrow	\dashv	\dashv	-+	-+	-+	$+\!\!\!\!+$
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		PF	RODUCTION RA	ATE .		PROCUREMEN	IT LEADTIMES		<u> </u>	
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder	i	Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
L0078- TFDS/BSQ-9	Brandywine Com, CA	1	10	15	9 months	3 months	9 months	3 months	78	
L0080- OE-538/BRC	Sippican/GSM, MA	6	12	22	12 months	6 months	12 months	3 months	105	
L0087- High Data Rate Antenna	Raytheon, MA	1	13	22	15 months	3 months	15 months	2 months	80	
L0084- Communications at Speed and Depth										
L0097- SubLAN	Various	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	

P-1 Shopping List-Item No 77 - 12 of 13

Exhibit P-21 Production Schedule

Unclassified

Classification

	CLASSIFICATION																																				
																														DATE	E						
							PR	OD	UC	ΓΙΟΙ	N S	CHI	EDι	JLE	(Co	onti	nue	d)															1	Febr	uary 2	:006	
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	PRIATION/BUDGET ACTIVITY	_															LATU														1			D NC).		
OP,N - E	3A2 COMMUNICATIONS & ELECTRONIC EQUIPMEN T	1T	1	_										3130	000 S	ubma	arine (Comr		ations													52L0				
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CODE	ITEM/MANUFACTURER		OVER	0	I N	D D		F	М	Α	M	J	KIE	AR A	s	09 O	N	D	J	FI	VI A		_	J		s	10 0	N	D	$\overline{}$		M	A	M			A S
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L0078	TFDS/BSQ-9	07	2	1	1																	_											\sqcup	Щ	$\vdash \vdash$		_
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L0087	HIGH DATA RATE ANTENNA	06	6	1	1	1	1	1	1																												
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			PRODUCTION RATE			PROCUREMEN	IT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
_										
	P-1	Shopping List-It	em No 77 - 13 c	of 13					Exhibit P-2	1 Production Sch

P-1 Shopping List-Item No 77 - 13 of 13

Unclassified

Classification

						DATE				February, 2006
APPROPRIATION/BUD	-		P-1 ITEM NOMENO			SUBHEAD				
OP,N - BA2 COMMUNIC	JATIONS & ELECTRO	JNIC EQUIPMENT	Satellite Communica	ations Systems	321500	52NR				
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	TO COMP	TOTAL
QUANTITY										
COST (in millions)		127.901	74.405	12.291	31.282	10.866	115.058	211.544	Cont.	Cont.

PROGRAM COVERAGE: The Satellite Communications (SATCOM) Systems P-1 line provides funds for procurement of shipboard terminal equipment for ship-to-ship, ship-to-shore and ship-to-aircraft tactical communications via earth orbiting relay satellites in the ultra high frequency (UHF), super high frequency (SHF), and extremely high frequency (EHF) bands. This includes radio frequency (RF) equipment and baseband equipment assembled and grouped into systems and subsystems structured to address specific naval communications requirements. These systems provide processors and peripheral equipment that control the RF links for message traffic, direct data transfer and secure voice communications. They are selected and oriented by communications traffic levels, types of communications and operational missions. These procurements are scheduled to meet the satellite communications requirements established by the Chief of Naval Operations (CNO) in the Fleet Communications Planning and Programming documents.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

MINI-DAMA: Miniaturized Demand Assigned Multiple Access (MINI-DAMA) quadruples the UHF satellite channel capacity through multiplexing, thus providing adequate satellite access to meet present user requirements without increasing the number of satellites. The shipboard Mini-DAMA system consists of a single chassis which combines a multiplexer, and UHF transceiver. Mini-DAMA is installed on board submarines, Guided Missle Destroyers (DDG's), Mine Countermeasurers Ships (MCM's), and Mine Hunter Coastal (MHC) ships. Installations are performed during regular overhaul, restricted availability by alteration installation teams (AIT). It provides a miniaturized version of the TD-1271B/U as well as incorporating UHF SATCOM and Line of Sight (LOS) transceiver capability. Mini-DAMA also uses 5 kHz or 25 kHz satellite channels and can operate in DAMA or non-DAMA modes. The Mini-DAMA configuration transitioned from Military Specification (MIL-SPEC) to Open System Architecture (OSA). Production units are delivered with either a single or dual channel configuration. The cost is essentially the same and references to quantities in this budget represent the number of channels, whether they are in single or dual channel. Mini-DAMA is scheduled for technology insertion by means of Military Standard 188-181B, Advanced Digital Waveform (ADW) as well as Military Standard (MIL-STD) 188-183A, 184 and a Graphical User Interface (GUI).

5/25 KHz SATCOM: Numerous pieces of SATCOM terminal equipment are required to satisfy special communications needs. This line includes procurement of off-the-shelf non-developmental items (NDI) for replacement of obsolete satellite communications terminals and baseband equipment. These items meet the Joint Chief of Staff (JCS) MANDATE (CJCSI 6250.01) for fleet, Department of Defense (DoD) and allied interoperability. Current implementation of this requirement is being satisfied using the MD-1324A modem. Beginning in FY06, 5 kHz MD-1324 upgrade will deliver Assured IP capability to every ship in the Navy.

SHF SYSTEMS: The Navy is continuing with expansion on use of Super High Frequency (SHF) for communications in support of Navy Tactical and Joint Force (JTF) Operating Forces Afloat through a phased implementation. AN/WSC-6(V)9 terminals, which provide high data throughput capacity for NIPRNET/SIPRNET, voice, and Internet connectivity, are continuing to be fielded. This system also provides SHF shore based modem equipment for high data rate communications with Fleet units via the Defense Satellite Communications Systems (DSCS). Shore based terminals have an operational requirement to support joint theater and Navy unique command, control, communications, support and intelligence circuits for voice, data, video and imagery to the extent they are required on SHF platforms. Enhanced Bandwidth Efficient Modem (EBEM) provides increased operational capability to all SHF terminals. This will allow SHF to make maximum use of the added tactical wideband capacity through the Wideband Gapfiller System (WGS). Additionally, funding is provided for spiral upgrades of all SHF terminals to reduce Electro Magnetic Interference (EMI), for technology refresh and enhanced system reliability to achieve the increased operational reliability parameters specified in the SHF Operational Requirements Document (ORD) throughout the lifetime of the system.

BUDGET ITEM JUSTIFICATION SHEET (Continuation)		DATE	February, 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Satellite Communications Systems 32150	0 52NR	

EHF TERMINALS: Navy's EHF Satellite Communications Program (NESP) terminals provide vital survivable wartime command and control communication systems for Submarine, Ship and Shore platforms with significant commonality between platform types. The Low Data Rate (LDR) system provides jam resistant, low probability of intercept capability to the fleet at a rate of 75 bits per second up to 2.4 kilobits per second (kbps) over MILSTAR Satellites 1 and 2. A Medium Data Rate (MDR) appliqué was added to the LDR system which increased communications from 4.8 kbps to 1.544 megabits per second (mbps) for all major fleet combatants with MILSTAR Satellites 4-6. The LDR/MDR Follow-On Terminal (FOT) satisfies remaining MDR requirements and replaces the legacy LDR terminal. The Navy EHF Communications Controller (NECC) provides for the exchange of computer-to-computer tactical communications over EHF LDR satellite services. The Time Division Multiple Access (TDMA) Interface Processor (TIP), integrated into the NECC, provides near real-time data transfer between Tactical Data Processors (TDP) and support for ADNS data exchange over EHF MDR services.

Acquisition Plan:

FY05: Procurement of NECC/TIP chassis, FOT/NECC/TIP baseband and ancillary equipment. FY06: Procurement of NECC/TIP chassis, FOT/NECC/TIP baseband and ancillary equipment.

COMMERCIAL SATELLITE (COMMERSAT) COMMUNICATIONS: Procurements and implementation of commercial satellite communications capability in the U.S. Navy is discussed in the Commercial Operational Requirements Document (ORD) dated 27 February 1996. The COMMERSAT program uses commercial off-the-shelf (COTS)/non-developmental item (NDI) equipment, software, and service with minimal adaptation for the naval environment. The programs which fall into this category of U.S. Navy satellite communications include the International Mobile Satellite (INMARSAT) and the Commercial Wideband Satellite Communications Program (CWSP, which includes the AN/WSC-8(V)1/2 system and the C-Band capability of the AN/WSC-6(V)9 SHF system). For CWSP, additional safety and capability upgrades have been deployed as system Field Changes (FC), including such improvement as the Enhanced Bandwidth Efficient Modems (EBEM).

BUDGET ITEM JUSTIFICATION SHEET (Continuation)		DATE Febr	ruary, 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Satellite Communications Systems 321500	52NR	

GLOBAL BROADCAST SERVICE (GBS): GBS is the Navy portion of a joint program with the Air Force as Executive Agent for all services. GBS augments other MILSATCOM systems and provides a continuous, high speed, one way information flow of high volume data to units ashore, afloat and special operations. GBS supports routine operations, training and military exercises, special activities, crises, situational awareness, intelligence, near real time video (classified/unclassified), weapons targeting, reconnaissance and transition to and conduct of opposed operations short of nuclear war. GBS provides the capability to quickly disseminate large information products to various joint, small combat, special warfare and combat support elements. FY05 through FY06 funds procure and install receive only equipment in various configurations customized to each type of ship for Phase II of the GBS program in support of UHF follow-on (UFO) satellite flights 8, 9, and 10 and follow-on Wideband Gapfiller Satellite (WGS). GBS IP shipboard and submarine receive broadcast manager (RBM) will be procured via the GBS systems contract executed by the Air Force to support ship, submarine, and shore training and integration facilities. For shore receive suites, all components including antennas and RBMs will be procured through the GBS systems (Air Force) contract. A Mission Needs Statement for GBS was signed, 3 August 1995, and the Operational Requirements Document (ORD) was signed on 30 April 1997 with the latest ORD revision III signed by the Joint Requirements Oversight Council (JROC) on 12 January 2005.

JMINI Control System: The Joint UHF Military Satellite Communications Network Integrated Control System (JMINI) is a joint interest program with the Navy designated as the lead service as directed by the Military Communications Electronics Board (MCEB). The JMINI Control System will provide dynamic centralized control of joint 5-kHz and 25-kHz UHF MILSATCOM voice and data resources (channels and Time Division Multiple Access (TDMA) time slots) via a globally integrated system of four control stations to be located at each of the three Naval Computer and Telecommunications Area Master Station (NCTAMS) sites plus Naval Computer and Telecommunications Station (NCTS) Guam. The globally integrated system consists of two major subsystems. The first subsystem provides communications resource planning and management via secure Wide Area Network (WAN) connections between the control stations and remote users and is known as the Network Management System (NMS). Based on a revised Operational Requirements Document (ORD), 64 NMS units are required; one at each control station plus 60 remote units to be installed at ORD-defined locations. The second subsystem provides the Radio Frequency (RF) connectivity (modems, radios, antennas) between the NMS and the UHF MILSATCOM user terminals worldwide and is known as the Channel Controller. There are 56 channel controllers required per control station. Funds in FY05 continue the hardware procurement and installation for the four control stations and the remote NMS units.

CLASSIFICATION

	COST ANALYSIS											DATE	Fe	ebruary, 2006
APPROPRI	ATION ACTIVITY		P-1 ITEM	NOMENCL	ATURE							SUBHEAD		
OP,N - BA-2	2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT	Satellite Co	ommunicatio	ons Systems	321500						52NR			
				FY 2005 FY 2000									FY 2007	
COST		ID		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
NR101 NR101	MINI DAMA MINI DAMA	А						0	Var	Var	3,100 3,100	0	0.0	C
NR105	5/25 KHz SATCOM							0			2,373			1,493
NR105	5/25 KHz SATCOMUHF Modems	Α							44	53.9	2,373	39	38.3	1,493
NR106	SHF SATCOM							14,515			248			
NR106	SHF TerminalsAN/WSC-6(V)5 Mod kits - Ship Upgrades (Note 1)	Α				Var	Var	1,354	0		0	0		
NR106	SHF Terminals AN/WSC-6 7 Ft Antenna - Ship	Α				0		0	0		0	0		
NR106	SHF TerminalsAN/WSC-6(V)7 - Ship	Α				0		0	0		0	0		
NR106	SHF TerminalsAN/WSC-6(V)7 - Ship Upgrades	Α				Var	Var	1,537	0		0	0		
NR106	SHF TerminalsAN/WSC-6(V)7 - Ship (Backfits)	Α				0		0	0		0	0		
NR106	SHF TerminalsAN/WSC-6(V)7 - Shore	Α				0		0	0		0	0		(
NR106	SHF TerminalsAN/WSC-6(V)9 - Ship (Note 2)	Α				Var	Var	3,761	0		0	0		(
NR106	SHF TerminalsAN/WSC-6(V)9 - Shore	Α				2	1,865.0	3,730	0		0	0		
NR106	SHF Terminals AN/WSC-6(V)7 Modems	Α				0		0	0		0	0		
NR106	SHF Terminals AN/WSC-6(V)9 Modems - Shore	Α				0		0	0	1	0	0		
NR106	SHF Terminals EBEM Modems - Ship (Note 3)	Α				148	12.3	1,824	24	10.3	248	0		
NR106	SHF Terminals EBEM Modems - Shore (Note 3)	Α				166	13.9	2,309	0	1	0	0		

Remarks:

SHF SATCOM

Note 1: FY05 - Terminal Upgrades include EC4 kits.

Note 2: FY05 - (V)9 Ship includes various procurements of Computer Based Training (CBT) and reliability ECP

Note 3: FY05 - EBEM Modems - Ship & Shore unit costs includes IP Modem Forward Fit Upgrade to EBEM

DD FORM 2446, JUN 86

### ACTIVITY ### MUNICATIONS AND ELECTRONIC EQUIPMENT F SATCOM	ID CODE A A A A A A	286 70 237 57 61 2	PY TOTAL COST 704,610 509,770 106,021 36,072 7,760 35,785 5,703 3,500			MENCLATURE nunications Sys TOTAL COST	ems 321500	TOTAL COST	QTY Var. 0	NDS OF DOL FY 2005 UNIT COST	TOTAL COST 7,696 2,225		FY 2006 UNIT COST Var.		SUBHEA 52NR QTY	FY 2007 UNIT COST	7 TOTAI COST
IF SATCOM IF TerminalsAN/USC-38(V) FOT - Ship (Note 1) IF TerminalsAN/USC-38(V) FOT - Shore (Note 2) IF TerminalsNECC - Ship (Note 3, 4, 5) IF TerminalsNECC - Shore or IF TerminalsNECC - Shore Ship (Note 6) IF TerminalsInterim Polar Gateway - Shore IF TerminalsInterim Polar Gateway - Shore IF TerminalsPolar Equipment		286 70 237 57 61	704,610 509,770 106,021 36,072 7,760 35,785 5,703					TOTAL COST	QTY Var.	FY 2005 UNIT COST	TOTAL COST 7,696	Var.	UNIT	TOTAL COST 2,849 1,261	0	UNIT	TOTA
IF SATCOM IF TerminalsAN/USC-38(V) FOT - Ship (Note 1) IF TerminalsAN/USC-38(V) FOT - Shore (Note 2) IF TerminalsNECC - Ship (Note 3, 4, 5) IF TerminalsNECC - Shore or IF TerminalsNECC - Shore Ship (Note 6) IF TerminalsInterim Polar Gateway - Shore IF TerminalsInterim Polar Gateway - Shore IF TerminalsPolar Equipment		286 70 237 57 61	704,610 509,770 106,021 36,072 7,760 35,785 5,703					0	Var.	UNIT	7,696	Var.	UNIT	TOTAL COST 2,849 1,261	0	UNIT	TOTA
IF SATCOM IF TerminalsAN/USC-38(V) FOT - Ship (Note 1) IF TerminalsAN/USC-38(V) FOT - Shore (Note 2) IF TerminalsNECC - Ship (Note 3, 4, 5) IF TerminalsNECC - Shore or IF TerminalsNECC - Shore Ship (Note 6) IF TerminalsInterim Polar Gateway - Shore IF TerminalsInterim Polar Gateway - Shore IF TerminalsPolar Equipment		286 70 237 57 61	704,610 509,770 106,021 36,072 7,760 35,785 5,703					0	Var.	COST	7,696	Var.	COST	2,849 1,261	0		
IF SATCOM IF TerminalsAN/USC-38(V) FOT - Ship (Note 1) IF TerminalsAN/USC-38(V) FOT - Shore (Note 2) IF TerminalsNECC - Ship (Note 3, 4, 5) IF TerminalsNECC - Shore or IF TerminalsNECC - Shore Ship (Note 6) IF TerminalsInterim Polar Gateway - Shore IF TerminalsInterim Polar Gateway - Shore IF TerminalsPolar Equipment	A A A A A	286 70 237 57 61	704,610 509,770 106,021 36,072 7,760 35,785 5,703		COST	COST		0	Var.		7,696	Var.		2,849 1,261	0	COST	COS
IF TerminalsAN/USC-38(V) FOT - Ship (Note 1) IF Terminals -AN/USC-38(V) FOT - Shore (Note 2) IF TerminalsNECC - Ship (Note 3, 4, 5) IF TerminalsNECC - Shore IF TerminalsMDR Appliques - Ship (Note 6) IF Terminals - Interim Polar Gateway - Shore IF TerminalsPolar Equipment	A A A A	70 237 57 61	509,770 106,021 36,072 7,760 35,785 5,703					0		Var.		Var.	Var.	1,261	•		
IF TerminalsAN/USC-38(V) FOT - Ship (Note 1) IF Terminals -AN/USC-38(V) FOT - Shore (Note 2) IF TerminalsNECC - Ship (Note 3, 4, 5) IF TerminalsNECC - Shore IF TerminalsMDR Appliques - Ship (Note 6) IF Terminals - Interim Polar Gateway - Shore IF TerminalsPolar Equipment	A A A A	70 237 57 61	509,770 106,021 36,072 7,760 35,785 5,703							Var.		Var.	Var.	1,261	•		
IF TerminalsAN/USC-38(V) FOT - Shore (Note 2) IF Terminals-NECC - Ship (Note 3, 4, 5) IF Terminals-NECC - Shore IF Terminals-MDR Appliques - Ship (Note 6) IF Terminals-Intertin Polar Gateway - Shore IF TerminalsIntertin Polar Gateway - Shore IF TerminalsPolar Equipment	A A A A	70 237 57 61	106,021 36,072 7,760 35,785 5,703							•	0		·		0		
IF TerminalsNECC - Ship (Note 3, 4, 5) IF TerminalsNECC - Shore IF TerminalsMDR Appliques - Ship (Note 6) IF TerminalsInterim Polar Gateway - Shore IF TerminalsPolar Equipment	A A A	237 57 61	36,072 7,760 35,785 5,703														
IF TerminalsNECC - Shore IF TerminalsMpc Appliques - Ship (Note 6) IF TerminalsInterim Polar Gateway - Shore IF TerminalsPolar Equipment	A A A	57 61	7,760 35,785 5,703					1	6	773.0	4,638		237.8	1,427	0		1
IF TerminalsMDR Appliques - Ship (Note 6) IF TerminalsInterim Polar Gateway - Shore IF TerminalsPolar Equipment	A A	61	35,785 5,703						3	277.7	833		53.7	161	0		
IF TerminalsInterim Polar Gateway - Shore IF TerminalsPolar Equipment	Ä		5,703						0	211.1	000		55.7	101	O		
IF TerminalsPolar Equipment	^	2															
			3,300														
mmercial Satellite																	
											2,795			0			
mm SatelliteINMARSAT R (Shin) Equip Ungrade - Handover	Δ										2,.00						
									86	27.0	2 322	0		0	0		
	Δ .									21.0	2,022	0		-	0		
	^									Var	473			U	U		
										vai.	4/3			0	0		
min. SatelineC band/GWSF (Shore)	^								0		U	0		0	U		
											9,167			0			
obal Broadcast Service Single (Receive Suite)	В																
obal Broadcast ServiceDual (Receive Suite)	В																
obal Broadcast Service - Conversion Kits/Backfits/Upgrades (Note 7)	В								Var.	Var.	9,167	0		0	0		
obal Broadcast ServiceSubs (Receive Suite)	В																
obal Broadcast Service - Shore	В																
IINI Control System											5,870			o			
IINI Control System - NMS	Α								10	587.0	5,870	0		0	0		
													L				
				ne kits, field	change kits and a	ncillary equipmer											
	ing ancillar	y equipment	t.														
	(TID -	NITI	00 -1														
unit cost increased due to a reduced quantity price break and increased procureme	ent of TIP o	cards for NE	CC chassis integ	ration.													
in in the unit is a second	hal Broadcast ServiceDual (Receive Suite) bal Broadcast Service - Conversion Kits/Backfits/Upgrades (Note 7) bal Broadcast Service - Subs (Receive Suite) bal Broadcast Service - Shore NI Control System NI Control System NI Control System - NMS In unit price are a result of the mix between Ship, Shore and Sub procurements. L 7) FOT Quantities of "Var." in PY, FY05, and FY06 reflect procurement of support s MPR (TIP) capability. Init cost increased due to a reduced quantity price break and increased procurem int cost increased due to a reduced quantity price break and increased procurem int cost increased due to a reduced quantity price break and increased procurem int cost increased only the procurement of NECC chassis and ancillary equipment.	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A mm. SatelliteINMARSAT B HSD KITS mm. SatelliteC band/CWSP (Ship) A A mm. SatelliteC band/CWSP (Ship) A A bal Broadcast Service (GBS) Bal Broadcast Service- Single (Receive Suite) B B bal Broadcast Service- Single (Receive Suite) B B bal Broadcast Service - Conversion Kits/Backfits/Upgrades (Note 7) B B bal Broadcast Service - Conversion Kits/Backfits/Upgrades (Note 7) B B bal Broadcast Service - Shore B B B MI Control System NI Control System NI Control System NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS A NI Control System - NMS NI Control S	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A M. StalliteINMARSAT B HSD KITS A A A M. SatelliteC band/CWSP (Ship) A A A A StalliteC band/CWSP (Ship) A A A B Broadcast Service (GBS) Bal Broadcast Service- Single (Receive Suite) Bal Broadcast Service- Dual (Receive Suite) B B Boal Broadcast Service- Conversion Kits/Backfits/Upgrades (Note 7) B B Bal Broadcast Service- Conversion Kits/Backfits/Upgrades (Note 7) B B Bal Broadcast Service- Subs (Receive Suite) B B Bal Broadcast Service - Shore B B B MI Control System NI Control System NI Control System - NMS A A M. Control System - NMS A M. Control System	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A A A A A A A A A A A A A A A A A	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A A A A A A A A A A A A A A A A A	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A A A A A A A A A A A A A A A A A	nm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A A A A A A A A A A A A B B C B C B	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A A A A A A A A A A A A A A A A A	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A A A A A A A A A A A A A A A A A	nm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A A A A A A A A A A A A A A A A A	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A D B B B B B B B B B B B B B B B B	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A Delimin. SatelliteC band/CWSP (Ship) A A Delimin. SatelliteC band/CWSP (Ship) A A Delimin. SatelliteC band/CWSP (Ship) A A Delimin. SatelliteC band/CWSP (Shore) A A Delimin. SatelliteC band/CWSP (Shore) A A Delimin. SatelliteC band/CWSP (Shore) A Delimin. SatelliteC band/CWSP (Shore) B Delimin. SatelliteC band/CWSP (Shore) B Delimin. SatelliteC band/CWSP (Shore) Delimin. SatelliteC band/CWSP	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A A B A B A B A B A B A B A B A B A	mm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A B B 6 27.0 2,322 0 nm. SatelliteOband/CWSP (Ship) A A A A A A A A A A A A A A A A A A A	mm. Satellite-IMMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A B B 6 27.0 2,322 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mm. Satellite—INMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A B B S	mm. Satellite—INMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband A A B B Ship) Equip. Upgrade - 128Kbps Wideband A A B B Ship) Equip. Upgrade - 128Kbps Wideband A A B B Ship Ship Ship Ship Ship Ship Ship Ship

CWSP

GBS
Note 7: In FY05-06, Ship and Shore "various" backfit and upgrade kits will be purchased and installed.

DD FORM 2446, JUN 86

	COST ANALYSIS													DATE		February, 2006
APPROPRIATION	ACTIVITY				P-1 ITEM N	OMENCLATUR								SUBHEAD		
OP,N - BA-2 COM	MUNICATIONS AND ELECTRONIC EQUIPMENT				Satellite Cor	nmunications Sy	stems :	321500						52NR		
								TOTAL COST IN THOUSAN	OS OF DOLLAR	S						
			PY						FY 200	5		FY 2006			FY 2007	
COST		ID	TOTAL		UNIT	TOTAL			UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY COST	QTY	r cost	COST		QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
NR555	PRODUCTION SUPPORT		29,	48						9,818			d			156
NR777	INSTALLATION		397,	87						78,041			65,835			10,642
	TOTAL BLI 3215		1,131,	45						127,901			74,405			12,291

DD FORM 2446, JUN 86

UNCLASSIFIED CLASSIFICATION

				T								
B. APP	ROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMEN	CLATURE					SUBHEAD		
P,N - BA	A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			Satellite Communication	ns Systems			321500		52NR		
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NR105	5/25 KHz SATCOMUHF Modems	06	Various	Various	SPAWAR		Apr-06	Dec-06	44	53.9	YES	N/A
NR105	5/25 KHz SATCOMUHF Modems	07	Various	Various	SPAWAR		Dec-06	Aug-07	39	38.3	YES	N/A
NR106	SHF TerminalsAN/WSC-6(V)9 - Ship	04	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		May-04	Feb-05	41	1,143.0	YES	N/A
NR106	SHF TerminalsAN/WSC-6(V)9 - Shore	05	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		Feb-05	Feb-06	2	1,865.0	YES	N/A
NR106	SHF Terminals AN/WSC-6(V)7 Modems	04	Raytheon, MA	C/FFP (OPT)	SPAWAR		Jul-04	Jul-05	2	10.0	YES	N/A
NR106	SHF Terminals EBEM Modems - Ship (Note 1)	02	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Jul-02	Aug-06	10	139.0	YES	N/A
NR106	SHF Terminals EBEM Modems - Ship	04	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Jun-04	Aug-06	119	7.0	YES	N/A
NR106	SHF Terminals EBEM Modems - Ship (Note 2)	05	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Jul-06	Dec-06	148	12.3	YES	N/A
NR106	SHF Terminals EBEM Modems - Ship	06	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Jul-06	Dec-06	24	10.3	YES	N/A
NR106	SHF Terminals EBEM Modems - Shore	04	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Jun-04	Mar-06	106	11.4	YES	N/A
NR106	SHF Terminals EBEM Modems - Shore (Note 2)	05	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Jan-06	Jul-06	166	13.9	YES	N/A

D. REMARKS

Note 1: FY02 - Unit cost of the EBEM Modems - Ship includes NRE.

Note 2: FY05 - EBEM Modems - Ship & Shore unit costs includes IP Modem Forward Fit Upgrade to EBEM

DD FORM 2446, JUN 87

UNCLASSIFIED CLASSIFICATION

PROCU	REMENT HISTORY AND PLANNING									A. DATE		February, 2006
B. APPRO	PRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOME	NCLATURE					SUBHEAD		
OP,N - BA2	COMMUNICATIONS & ELECTRONIC EQUIPMENT			Satellite Communicat	tions Systems			321500		52NR		
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NR107	EHF TerminalsAN/USC-38(V) FOT - Ship	04	Raytheon, Marlborough, MA	C/FFP (OPT)	SPAWAR		Mar-04	Sep-05	0	0.0	YES	N/A
l l	EHF TerminalsNECC - Ship (Note 1) EHF TerminalsNECC - Ship (Note 2)	05 06	SPAWAR System Center SPAWAR System Center	Work Request Work Request	SPAWAR SPAWAR		Nov-04 Nov-05	Mar-05 May-06	6 6	773.0 237.8	YES YES	N/A N/A
	EHF TerminalsNECC - Shore (Note 1) EHF TerminalsNECC - Shore (Note 3)	05 06	SPAWAR System Center SPAWAR System Center	Work Request Work Request	SPAWAR SPAWAR		Nov-04 Nov-05	Mar-05 May-06	3 3	277.7 53.7	YES YES	N/A N/A
NR117	Global Broadcast Service - Conversion Kits/Backfits/Upgrades	05	Raytheon, Marlborough, MA & Reston, VA	CPAF/(OPT)	USAF		Var.	Var.	Var.		YES	N/A
NR118	JMINI Control System - NMS	05	SAIC	CPFF	SSC-SD		Dec-04	Jul-05	10	587.0	YES	N/A

D. REMARKS

Note 1: FY05 NECC unit cost increased due to a reduced quantity price break and increased procurement of TIP cards for integration into the NECC chassis.

Note 2: FY06 NECC - Ship unit cost reflects the procurement of NECC chassis and ancillary equipment. Delivery date delayed because new contract has a longer production lead time.

Note 3: FY06 NECC - Shore unit cost reflects the procurement of TIP CCAs only. Delivery date delayed because new contract has a longer production lead time.

DD FORM 2446, JUN 87

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR101

MODELS OF SYSTEMS AFFECTED: MINI DAMA--UHF Modems

DESCRIPTION/JUSTIFICATION: Provide UHF COMM capabality for sub and other disadvantaged users

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions) FY 05 FY 06 FY 07 FY 08 FY 09 Total \$ Qty Qty Qty Qty Qty Qty Qty Qty Qty RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Var 0 Equipment 3.1 0.0 Var 3.1 **Engineering Change Orders** Data Training Equipment 0 0.0 Production Support 0 0.0 Other (DSA) 0 0.0 Shore Pre-Installation Design Planning Installation of Hardware* 0 0.0 0 0.5 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 Var 0.5 PRIOR YR EQUIP 0 0.0 FY 05 EQUIP 0 0.0 FY 06 EQUIP Var 0.5 Var 0.5 FY 07 EQUIP 0 0.0 FY 08 EQUIP 0.0 0 FY 09 EQUIP 0.0 0 FY 10 EQUIP 0.0 FY 11 EQUIP 0.0 FY TC EQUIP 0.0 TOTAL INSTALLATION COST 0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.5 TOTAL PROCUREMENT 0.0 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.1 0.0 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEAD-TIME: PRODUCTION LEAD-TIME: 5 Months 12 Months CONTRACT DATES: FY 2004: NA FY 2005: NA FY 2006: Jun-06 FY 2007: **DELIVERY DATES:** FY 2004: NA FY 2005: NA FY 2006: Jun-07 FY 2007: FY 06 FY 07 FY 08 INSTALLATION SCHEDULE: PY INPUT 0 OUTPUT 0 FY 09 FY 10 FY 11 INSTALLATION SCHEDULE: TC TOTAL

Notes:

INPUT

OUTPUT

FY06 Congressional Plus Up

Various quantities represent systems and subsystems of various equipment configurations that are dependent upon type of platform.

0

0

0

MODIFICATION TITLE: Satellite Communications Systems

COST CODE

NR105

MODELS OF SYSTEMS AFFECTED: 5/25 KHz SATCOM--UHF Modems

DESCRIPTION/JUSTIFICATION: Provides the modulation demodulation capability at 5 KHz bandwidth in the UHF spectrum

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

	PY			FY C		FY C			07	FY		FY.		FY.		FY		TC		Tot	
RDT&E PROCUREMENT:	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Kit Quantity Installation Kits																					
Installation Kits Nonrecurring Equipment	429	19.5																0	0.0	429	19.5
5/25 kHz MD-1324 IP upgrade Engineering Change Orders						44	2.4	39	1.5	59	2.7	37	2.1	28	1.4	16	0.9	11	0.4	234	11.4
Data Training Equipment Production Support	2	0.2 2.6							0.2		0.2		0.2		0.2		0.2			2	0.2 3.4
Other (DSA) Shore Pre-Installation Design Planning		1.2					0.2		0.2		0.3 0.1		0.3		0.2		0.1		0.0	0	2.5
Installation of Hardware* PRIOR YR EQUIP	429 429	15.0 15.0				0	0.0	30	2.1	53	3.8		2.4	40	2.2	35	2.4	25	1.7	663 429	29.6 15.0
FY 05 EQUIP FY 06 EQUIP								30	2.1		1.0									0 44	0.0 3.1
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP										39	2.8	0 51	0.0 2.4	8 32	0.4 1.8		0.3			39 59 37	2.8 2.9 2.1
FY 10 EQUIP FY 11 EQUIP														02	1.0	28 2	1.9	14	0.9	28 16	1.9
FY TC EQUIP																		11	0.8	11	0.8
TOTAL INICTALLATION COST		40.0	0.0		0.0	.															
TOTAL INSTALLATION COST TOTAL PROCUREMENT		16.2 38.5	0.0		0.0)	0.2 2.6		2.4 4.0		4.1 7.0		2.7 5.0		2.5 4.0		2.5 3.5		1.7 2.2		32.2 34.5
					0.0		2.6	6 Months	4.0		7.0		5.0	8-10 Mont	4.0						
TOTAL PROCUREMENT	FY 2004:		0.0		0.0)	2.6	6 Months	4.0		7.0 TION LEA		5.0		4.0		3.5	/ 2007:		Dec-06	
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:	FY 2004: FY 2004:	38.5	0.0		0.0	LEAD-TIMI	2.6 E:		4.0		7.0 TION LE	AD-TIME:	5.0	8-10 Mont	4.0		3.5 FY	/ 2007: / 2007:		Dec-06 Aug-07	
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES:		38.5 NA	0.0		0.0	E LEAD-TIMI	2.6 E:	NA	4.0	PRODUC	7.0 TION LE	AD-TIME: FY 2006:	5.0	8-10 Mont	4.0		3.5 FY			Aug-07	
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES:		38.5 NA	0.0		0.0	E LEAD-TIMI	2.6 E:	NA	4.0 FY	PRODUC	7.0 TION LEA	AD-TIME: FY 2006:	5.0	8-10 Monti Apr-06 Dec-06	4.0		3.5	⁄ 2007:	2.2 FY	Aug-07	34.5
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE:		38.5 NA	0.0		0.0	E LEAD-TIMI	2.6 E:	NA	4.0 FY	PRODUC	7.0 TION LEA	AD-TIME: FY 2006:	5.0	8-10 Monti Apr-06 Dec-06 FY 0	4.0	4_	3.5	/ 2007: 1	2.2 FY 2	Aug-07 08 3	34.5
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT		38.5 NA NA PY 429	0.0	ADMINIST	0.0 RATIVE	E LEAD-TIMI	2.6 E:	NA	4.0 F <u>Y</u> 2	PRODUC 06 3	7.0 TION LEA	AD-TIME: FY 2006:	5.0 1 22	8-10 Monti Apr-06 Dec-06 <u>FY 1</u> 7	4.0 ns	4_0	3.5	/ 2007: 1 39	2.2 FY 2	Aug-07 08 3	34.5 4 0
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT		38.5 NA NA PY 429	0.0		0.0 RATIVE	E LEAD-TIMI	2.6 E:	NA	4.0 F <u>Y</u> 2	PRODUC	7.0 TION LEA	AD-TIME: FY 2006:	5.0 1 22	8-10 Monti Apr-06 Dec-06 <u>FY 0</u> 2	4.0 ns	4_0	3.5 FY	/ 2007: 1 39	2.2 FY 2	Aug-07 08 3	34.5 4 0
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT OUTPUT		38.5 NA NA PY 429	0.0	ADMINIST	0.0 RATIVE	FY 2005:	2.6 E:	NA	4.0 FY 2	96 3	7.0 TION LEA	AD-TIME: FY 2006:	5.0 1 22	8-10 Monti Apr-06 Dec-06 FY 1 7 FY 11	4.0 ns	0	3.5	/ 2007: 1 39 39	2.2 FY 2	Aug-07 08 3 1 1	34.5 4 0

Notes:

Two (2) Training Equipment units do not require install funds.

Quantities for MD-1324 IP Upgrade represent number of platforms.

Unit cost varies depending upon number of modems required for each upgrade. Each ship contains unique hardware configuration requirements.

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR1

MODELS OF SYSTEMS AFFECTED: SHF Terminals-- AN/WSC-6(V)5 Mod Kits - Ship

DESCRIPTION/JUSTIFICATION: High data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>	ام	i.	FY 05		FY 06		FY 07	ام	FY 08		FY 09	اء	FY 10		<u>FY 11</u>		TC.	اء	Tota	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Terminal Upgrades Production Support Other (DSA) Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 10 EQUIP FY 11 EQUIP FY 12 EQUIP FY 12 EQUIP FY 12 EQUIP FY 13 EQUIP FY 14 EQUIP FY 15 EQUIP FY 16 EQUIP FY 17 EQUIP FY 18 EQUIP FY 18 EQUIP FY 18 EQUIP FY 19 EQUIP FY 10 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP	23 Var. 19 19	\$ 27.4 1.7 3.8 1.0 10.6 10.6	0.0	Var. 0 Var.	1.4 0.2 0.1 1.0 1.0	O Var. Var.	0.4 0.3 0.2 0.2		0.0	Qty 0	0.0	Qty 0	0.0		0.0	Qty 0	0.0	Oty O	0.0	23 Var. 0 0 19 Var. Var. 0 0 0 0 0 0 0 0 0	27.4 3.0 4.0 1.6 11.9 11.8 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
METHOD OF IMPLEMENTATION: CONTRACT DATES:	FY 2004:	ADMII NA	NISTRATIVE I	LEAD-TIME:		1 Month =Y 2005:		NA			PRODUC	FY 2006:		NA	12 Months	i		FY 2007:		NA	
DELIVERY DATES:	FY 2004:	NA				FY 2005:		NA				FY 2006:		NA				FY 2007:		NA	
INSTALLATION SCHEDULE: INPUT OUTPUT	_	PY 19 19					-	1	2 <u>FY</u>	<u>06</u> 3	4		1	<u>FY</u> 2	<u>07</u> 3	4	-	1	<u>F)</u> 2	<u>′ 08</u> 3	4
INSTALLATION SCHEDULE:			1	<u>FY 09</u> 2	3	4	-	11	<u>FY 1</u> 2	<u>10</u> 3	4		11	<u>F\</u> 2	<u>/ 11</u> 3	4	-	TC		<u>TOTAL</u>	
INPUT																		0		19	
OUTPUT																		0		19	

Notes/Comments

Three (3) mod kits were procured but not installed. One destroyed on pier, one will remain as an Engineering Model at Contractor Facility, one install canceled per Fleet request, ship will now receive dual channel (V)7 vice aging (V)5.

FY05: Terminal Upgrades include EC4 kits.

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR106

SHF Terminals-- AN/WSC-6 7 Ft Antenna - Ship

DESCRIPTION/JUSTIFICATION: High data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

MODELS OF SYSTEMS AFFECTED:

FINANCIAL PLAN: (\$ in millions)																					
	<u>PY</u>			FY 05		FY 0		FY 07		FY 08	-	FY 09	-	FY 10	-	FY 11		<u>TC</u>			Total
	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																•		·			
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	33	6.2												39	14.0	28	10.2	18	6.4	118	36.8
Production Support Other (DSA) Interim Contractor Support		0.7 1.6			0.1		0.0								0.6 2.1		0.6 2.0		0.4 1.8	0 0	2.4 7.5
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP	24 24	8.8 8.8		6 6	3.1 3.1	1 1	0.6 0.6	0	0.0	0	0.0	0	0.0	8	3.4	31	12.5	46	19.3	116 31 0 0 0	47.6 12.4 0.0 0.0 0.0 0.0
FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP														8	3.4	31	12.5	28 18	11.8 7.5	0 39 28 18	0.0 15.9 11.8 7.5
TOTAL INSTALLATION COST		10.4	0.0		3.1		0.6		0.0		0.0		0.0		5.5		14.4		21.1		55.1
TOTAL PROCUREMENT		17.3	0.0		3.1		0.6		0.0		0.0		0.0		20.1		25.3		27.8		94.3
METHOD OF IMPLEMENTATION:		•		ADMINISTE	ATIVE I	FAD-TIME	<u>.</u>	1 Month		PRODUCT	IONIE	D-TIME:		9 Months					•		
METHOD OF IMPLEMENTATION.				7.DIVIII 11011	O L	L/VD TIIVIE		1 WOTH		i Kobooi	ioit LL,	ID THVIL.		O IVIOITIIIO							
CONTRACT DATES:	FY 2004:	Mar-0)4		F	FY 2005:		NA				FY 2006:		NA				FY 2007:	1	NΑ	
DELIVERY DATES:	FY 2004:	Dec-0)4		F	Y 2005:		NA				FY 2006:		NA -	_			FY 2007:		NA .	
INSTALLATION SCHEDULE:	_	PY					-	1	2 <u>FY</u>	3	4	_	1	<u>FY (</u>	3	4	-	1	2 FY (3	4
INPUT		30							1												
OUTPUT		30								1											
INSTALLATION SCHEDULE:			1	<u>FY 09</u>	<u>9</u> 3	4		1	<u>FY ′</u> 2	<u>10</u> 3	4		1	<u>FY 1</u> 2	<u>1</u> 3	4		TC		<u>TOTAL</u>	
							-					_					-				
INPUT											8		10	10	11	0		46		116	
OUTPUT													8	10	10	11		46		116	

Notes/Comments

One (1) unit reassigned to AIRLANT.

One (1) unit to remain at Original Equipment Manufacturer (OEM) for integration testing

Install schedule for FY05 and FY06 due to CNO avails

FY10-11 - Includes procurement and installation of replacement antennas

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR1
MODELS OF SYSTEMS AFFECTED: SHF

SHF Terminals--AN/WSC-6(V)7 - Ship

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																				
	Qty PY	\$		<u>FY</u> Qty	<u>05</u> \$	FY 06 Qty	\$	FY 07 Qty	\$	FY 08 Qty	\$	FY 09 Qty	\$	FY 10 Qty	FY 11 Qty	\$	TC Qty	\$	Tot Qty	<u>tal</u> \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment - Single Channel (V)7 NRE Equipment - Dual Channel V(7) Terminal upgrades Production Support Other (DSA) Interim Contractor Support	43 7 Var	42.5 1.0 4.8 5.6 15.6 4.6		Var	1.5 0.8 0.8	uty	0.4	<u> </u>	\$	Qty	\$	Qiy	\$	<u>Gry</u>	\$ City	\$	<u> </u>	*	43 0 7 var 0	42.5 1.0 4.8 7.2 16.4 5.8
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP	33 33	51.0 51.0		7 7	10.5 10.5	6	10.1	0	0.0	0	0.0	0	0.0	0 0		0.0		0.0	46 46 0 0 0 0 0 0 0	71.6 71.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		55.6 125.2		0.0	11.3 13.6		10.4 10.4		0.0		0.0		0.0	0		0.0		0.0		77.3 149.3
METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES:	FY 2004: FY 2004:		Mar-04 Mar-05	ADMINIS		EAD-TIME: FY 2005: FY 2005:	1	Month NA NA		PRODUCT		D-TIME: FY 2006: FY 2006:		12 Months NA NA	•		FY 2007: FY 2007:		NA NA	
INSTALLATION SCHEDULE:	_	PY					_	1	<u>FY (</u>	<u>3</u>	4	_	1	<u>FY 07</u> 2 3	4		1	2 2	<u>3</u>	4
INPUT		40						2	2	2										
OUTPUT		36						4	2	2	2									
INSTALLATION SCHEDULE:				<u>FY</u> 1 2	<u>09</u> 3	4	_	1	<u>FY 1</u>	<u>10</u> 3	4	_	1	<u>FY 11</u> 2 3	4		TC		TOTAL	
INPUT																	0		46	
OUTPUT																	0		46	

Notes/Comments

Two (2) dual channel terminals will remain at the Original Equipment Manufacturer (OEM) for integration testing. FY04 is the last year to procure on this contract, however, there are no install availabilities for the last six ships until FY06. Install schedule change for FY05 and FY06 due to CNO avails

UNCLASSIFIED

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR10
MODELS OF SYSTEMS AFFECTED: SHF

SHF Terminals--AN/WSC-6(V)7 - Ship (Backfits)

DESCRIPTION/JUSTIFICATION: Equipment to modify installed AN/WSC-6 (V) 7 system to meet Radar Cross Section reduction specifications.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)	WILESTONES:																		
T INANCIAL FLAN. (\$ IIT HIIIIOTIS)	PY		F	Y 05	FY 06	FY	07	FY 0	8	FY 0	9	FY 10)	FY 1	1	TC		Tota	ı
	Qty	\$	Ια			\$ Qty	\$	Qty	<u>s</u>	Qty	<u>s</u>	Qty	s s		<u>.</u> sl	Qty	\$	Qty	<u>.</u> \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits - RCS Backfit Installation Kits - WGS Backfits Equipment Nonrecurring - RCS Backfit Engineering Change Orders Data	30	2.5	G.	y v	<u>uty</u>	ψ Giy	ų.	Gty	Ψ	Qty	Ψ	Qц	Ψ	Qty	9	Qty	9	30 0	2.5
Training Equipment Production Support Other (DSA) Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP	20 20	0.4 0.3 2.2 2.2	2 2	0.1 0.4 0.4	8 8	0.0 0.8 0.8	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0 0 30 30 0 0 0	0.4 0.4 3.4 3.4 0.0 0.0 0.0 0.0
FY 10 EQUIP FY 11 EQUIP																		0	0.0
FY TC EQUIP		0.5									0.0						2.0	0	0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		2.5 6.3	0.0	0.4		0.9	0.0		0.0		0.0		0.0		0.0		0.0		3.8 7.6
METHOD OF IMPLEMENTATION:		0.01			LEAD-TIME:	1 Month		PRODUCTI		D-TIME:		10 Months	0.0		0.0		0.0		1.0
CONTRACT DATES:	FY 2004:	Mar-04			FY 2005:	NA			F	Y 2006:		NA			F	Y 2007:	1	NA	
DELIVERY DATES:	FY 2004:	Jan-05	;		FY 2005:	NA			F	Y 2006:	ı	NA			F	Y 2007:	1	NA	
							FY 0					FY 0					FY (
INSTALLATION SCHEDULE:		PY				1	2	3	4	_	1	2	3	4	_	1	2	3	4
INPUT		22				2	2	2	2										
OUTPUT		22					2	2	2		2								
OUTPUT		22					2	2	2		2								
OUTPUT		22	<u> </u>	<u>'Y 09</u>			2 <u>FY 10</u>		2		2	<u>FY 1</u> :	<u>.</u>						
OUTPUT INSTALLATION SCHEDULE:		22	E12	<u>'Y 09</u> 3	4	1			2	_	2	<u>FY 1:</u> 2	3	4	-	TC		<u>TOTAL</u>	
		22			4	1	<u>FY 10</u>	<u> </u>		_	1			4	-	TC 0		<u>TOTAL</u> 30	

Notes/Comments

FY04 is the last year to procure on this contract, however, there are no install availabilities for the last four ships until FY06 (2 units per ship).

February, 2006

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR106

MODELS OF SYSTEMS AFFECTED: SHF Terminals --AN/WSC-6(V)7 - Shore

DESCRIPTION/JUSTIFICATION: AN/WSC-6(V)7 terminals provide training and technical support for high data rate SHF satellite communications for inter and intra service message, data, voice and video transmission.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

Notes/Comments

RDT&E PROCUREMENT: Kit Quantity	Qty \$ Qty \$ Qty	\$ Qty \$ Qty \$ Qty	
PROCUREMENT:			\$ Qty \$ Qty \$
Kit Quantity			
Installation Kits Installation Kits Nonrecurring			
Equipment 2 1.7			2 1.7
Equipment-WGS Backfits Equipment- Dual Channel Backfits 1 0.0			1 0.0
Data			
Training Equipment Production Support 1.8			0 1.8
Other (DSA)			1.0
Interim Contractor Support Installation of Hardware* 3 2.0	1 0.1 0 0.0 0	0.0 0 0.0 0 0.0 0	0.0 0 0.0 0 0.0 4 2.1
Installation of Hardware* 3 2.0 PRIOR YR EQUIP 3 2.0	1 0.1 0 0.0 0	0.0 0 0.0 0 0.0 0	0.0 0 0.0 0 0.0 4 2.1 4 2.1
FY 05 EQUIP			0 0.0
FY 06 EQUIP FY 07 EQUIP			0 0.0
FY 08 EQUIP			0 0.0
FY 09 EQUIP FY 10 EQUIP			0 0.0
FY 11 EQUIP			0 0.0
FY TC EQUIP TOTAL INSTALLATION COST 2.0	0.0 0.1 0.0	0.0 0.0 0.0	0 0.0 0.0 0.0 0.0 2.1
TOTAL PROCUREMENT 5.5	0.0 0.1 0.0	0.0 0.0 0.0	0.0 0.00 5.6
METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEAD-TIME: 1 Month	PRODUCTION LEAD-TIME:	12 Months
CONTRACT DATES: FY 2004: Mar-04	FY 2005: NA	FY 2006: NA	FY 2007: NA
DELIVERY DATES: FY 2004: Mar-05	FY 2005: NA	FY 2006: NA	FY 2007: NA
		<u>FY 06</u> <u>FY 0</u>	<u>FY 08</u>
INSTALLATION SCHEDULE: PY	1	2 3 4 1 2	3 4 1 2 3 4
INPUT 4			
OUTPUT 4			
	FY 09	FY 10 FY 1	1
			3 4 TC <u>TOTAL</u>
INSTALLATION SCHEDULE:	2 3 4 1	2 3 4 1 2	3 4 IC <u>IOTAL</u>
		2 3 4 1 2	
INSTALLATION SCHEDULE:		2 3 4 1 2	0 4
		2 3 4 1 2	

February, 2006

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR106
MODELS OF SYSTEMS AFFECTED: SHF Te

SHF Terminals--AN/WSC-6(V)9 - Ship

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																				
	I Qtv	<u>′</u> ¢l		FY 0	<u>)5</u> \$	FY 06 Qtv	<u>s</u> \$1	FY 07 Qtv	<u>′</u> \$	<u>FY 08</u> Qtv	\$	FY 09 Qtv	\$	<u>FY 10</u> Qtv	\$ Qtv	<u>FY 11</u> \$	TO Qty	<u>}</u>	Total Qty	¢
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment - C/X Terminal	54	62.3		aty	Ψ	Qty	Ψ	wiy	Ψ	Qty	Ψ	diy	Ψ	wiy	uty uty	v	Qty	Ψ	54 62	<u>Ψ</u>
Equipment-C/X/Ka Ready Terminal	04	02.0																		
Terminal Upgrades Data Training Equipment				Var.	3.8														var 3	8.8
Production Support Other (DSA) Interim Contractor Support		16.8 4.5			1.9 3.6		0.8		0.4		0.3								0 18 0 9	
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY TC EQUIP	11 11	17.0 17.0		11 11	17.1 17.1	19 19	29.1 29.1	5 5	7.3 7.3		10.8 10.8	0	0.0	0 0	.0 0	0.0	0	0.0	52 81 52 81 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.3 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		21.4		0.0	20.7		29.9		7.7		11.1		0.0	0	.0	0.0		0.0	90	
TOTAL PROCUREMENT		100.5		0.0	26.4		29.9		7.7		11.1		0.0		.0	0.0		0.000	175	.7
METHOD OF IMPLEMENTATION:				ADMINIST	RATIVE	LEAD-TIME:	: 1	Month	١	PRODUCTION	N LEAD	-IIME:	9	Months						
CONTRACT DATES:	FY 2004:		May-04			FY 2005:	N	NΑ			F۱	Y 2006:	Ν	Α			FY 2007:		NA	
			•																	
DELIVERY DATES:	FY 2004:		Feb-05			FY 2005:	Ν	NA				Y 2006:	Ν	A			FY 2007:		NA	
DELIVERY DATES: INSTALLATION SCHEDULE:	FY 2004:	PY	Feb-05			FY 2005:	N	NA 1	<u>FY 0</u> 2	1 <u>6</u> 3			Ν	A <u>FY 07</u> 2 3	4		FY 2007:	<u>FY 08</u> 2		_
	FY 2004:	PY	Feb-05			FY 2005:	_	1 8		_				FY 07	4	_	FY 2007:	FY 08	NA	_
INSTALLATION SCHEDULE:	FY 2004: -		Feb-05			FY 2005:	_	1	2	3		Y 2006:		<u>FY 07</u> 2 3	4	_	1	<u>FY 08</u> 2	NA 3 4	
INSTALLATION SCHEDULE:	FY 2004:	22	Feb-05	<u>FY (</u> 2		FY 2005:	_	1 8	8	3 3 8	F\	Y 2006:		<u>FY 07</u> 2 3	4	_	1	FY 08 2 3 2	NA <u>3 4</u>	_
INSTALLATION SCHEDULE: INPUT OUTPUT	FY 2004:	22	Feb-05		<u>19</u>	FY 2005:	_	1 8	2 8 8 <u>FY 1</u>	3 3 8	4 <u> </u>	Y 2006:		FY 07 2 3 3 2 3 FY 11	4	_	1	FY 08 2 3 2	3 4 1 3 1	_
INSTALLATION SCHEDULE: INPUT OUTPUT INSTALLATION SCHEDULE:	FY 2004:	22	Feb-05		<u>19</u>	FY 2005:	_	1 8	2 8 8 <u>FY 1</u>	3 3 8	4 <u> </u>	Y 2006:		FY 07 2 3 3 2 3 FY 11	4	_	1 2	FY 08 2 3 2	3 4 1 3 1 OTAL	_

Notes/Comments

Buying out remaining required (V)9 Terminals in FY04 to achieve quantity discount.

FY05 - Various procurements of CBT and reliability ECP

UNCLASSIFIED

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR10

MODELS OF SYSTEMS AFFECTED: SHF Terminals-AN/WSC-6(V)9 - Shore

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																				
	<u>PY</u>		1	FY 05		FY 06	FY SI		FY 08		FY 09		FY 10	ام	FY 11	ام	<u>TC</u>	ام	<u>Tot</u>	<u>al</u>
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment-WGS Backfit Engineering Change Orders Data	Qty	\$		Qty	\$ Qty		\$ Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Training Equipment Production Support Other (DSA)	1	1.3		2 3	.7														3	5.1
Interim Contractor Support Installation of Hardware* Installation of Modems PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 17 EQUIP FY 17 EQUIP	2 2	0.8			.5 0	0.	0 0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3 0 3 0 0 0 0	1.3 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		0.8	0.0	0	.5	0.	0	0.0)	0.0		0.0		0.0		0.0		0.000	- 0	1.3
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		2.1	0.0 Al	4 DMINISTRATI\	/E LEAD-	O. TIME:	1 Month	0.0	PRODUCTIO	0.0 N LEAD	D-TIME:	0.0	12 Months	0.0		0.0		0.0		6.3
CONTRACT DATES:	FY 2004:	May-	04		FY 200	05:	Feb-05				FY 2006:		NA				FY 2007:		NA	
DELIVERY DATES:	FY 2004:	Feb-	05		FY 200	05:	Feb-06				FY 2006:		NA				FY 2007:		NA	
INSTALLATION SCHEDULE:	_	PY					1	<u>E</u> 2	<u>Y 06</u> 3	4		1	<u>FY 07</u>	3	4		1	<u>FY</u> 2	<u>08</u> 3	4
INPUT		3																		
OUTPUT		2					1													
INSTALLATION SCHEDULE:			1	<u>FY 09</u> 2 3	4		1	<u>FY</u> 2	<u>′ 10</u> 3	4	. <u> </u>	1	<u>FY 11</u> 2	3	4	,	TC		<u>TOTAL</u>	
INPUT																	0		3	
оитрит																	0		3	

Notes/Comments

FY05 - 2 units will not be installed (1 for OEM, 1 for SSC-CH lab)

February, 2006

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR106

MODELS OF SYSTEMS AFFECTED: SHF Terminals -- SUBHDR SHF Mod Kit

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception for submarines.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																						
	Qty PY	\$		1	FY 05 Qtv	sl	FY 06 Qtv	<u>s</u> \$	FY Qty	<u>07</u> \$		<u>Y 08</u> \$	FY Qtv	<u>09</u> \$	FY ·	<u>10</u> \$	<u>FY</u> Qty	<u>11</u> \$	TC Qty	\$	Tot Qty	<u>al</u> \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	7	0.6			<u> </u>	J.	uty	φ	Qly	Ψ	59	11.7		Þ	Qty	9	Qty	Þ	Ϋ́	Ψ	66	12.3
Training Equipment Production Support Other (DSA)												0.7									0	0.7
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP	7 7	0.2			0	0.0	0	0.0	0	0.0	0	0.0	27	5.4 5.4	32	6.4	0	0.0	0	0.0	66 7 0 0 0 59 0 0	12.0 0.2 0.0 0.0 0.0 11.8 0.0 0.0
FY TC EQUIP TOTAL INSTALLATION COST		0.2		0.0		0.0		0.0		0.0		0.0		5.4		6.4		0.0		0.0	0	0.0 12.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		0.2		0.0		0.0		0.0		0.0		12.4		5.4		6.4		0.0		0.0		25.0
METHOD OF IMPLEMENTATION:		0.0			MINISTRA		EAD-TIME:		1 Month			CTION LE			12 Months			0.0		0.0		20.0
CONTRACT DATES:	FY 2004:		NA			F	Y 2005:		NA				FY 2006:		NA				FY 2007:	ı	NA	
DELIVERY DATES:	FY 2004:		NA			F	Y 2005:		NA				FY 2006:		NA				FY 2007:	I	NA	
INSTALLATION SCHEDULE:		PY							4	<u>FY</u>	<u>′ 06</u> 3	4		4	<u>FY (</u>	<u>07</u> 3	4		4	<u>E</u>	<u>Y 08</u> 3	4
INSTALLATION SCHEDULE:	_	Pĭ							1		3	4		- 1		3	4			2	3	4
INPUT		7																				
OUTPUT		7																				
INSTALLATION SCHEDULE:				1	<u>FY 09</u> 2	3	4	-	1	<u>FY</u> 2	<u>′ 10</u> 3	4		1	<u>FY</u> 2	1 <u>1</u> 3	4		TC		<u>TOTAL</u>	
INPUT					10	10	7		10	11	11								0		66	
OUTPUT						10	10		7	10	11	11							0		66	

Notes/Comments

FY08: EHF Acquisition strategy has changed to FOT; SHF application for this EHF FOT is planned for development through FY06, with initial testing in FY07, and production in FY08.

Decreased unit cost due to a less costly tech solution found.

MODIFICATION TITLE: Satellite Communications Systems

COST CODE

MODELS OF SYSTEMS AFFECTED: SHF Terminals -- EBEM Modems - Ship

Shore side modems for compatibility with the AN/WSC-6(V)9 terminals to support increased SHF capacity. DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL	. PLAN	1: (\$ ir	n millions)
-----------	--------	-----------	-------------

I INANCIAL FLAN. (\$ III IIIIIIOIIS)																					
	Qty PY	اه		FY 05 Qty	<u>5</u> \$	FY 06 Qty	<u>s</u>	Qty	<u>7</u> \$l	FY 0 Qty	<u>8</u> \$	Qty	<u>99</u> \$	Qty	<u>10</u> \$	FY Qty	<u>11</u> \$	TC Qty	\$	<u>Tota</u> Qty	al el
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qiy	\$		Qiy	Þ	Qiy	Φ	Qiy	Ф	Qiy	Đ.	Qiy	2	Qiy	3	Qiy	Đ.	Qiy	\$	Qiy	\$
Installation Kits Nonrecurring Equipment Advanced MODEM NRE	129	1.2 1.0		29	0.6	24	0.2			28	0.2	5	0.0							215	2.3
IP Modem Forward Fit Upgrades to EBEM Training Equipment				119	1.2															119	1.2
Production Support Other (DSA) Interim Contractor Support		0.2 1.3			0.2 0.5		0.4		0.1		0.4		0.1		0.0					0	0.4 2.8
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP	0	0.0		46 46	0.8	99 70 29	1.7 1.2 0.5		0.5	10	0.2	18	0.4	5	0.1	0	0.0	0	0.0	202 116 29 24	3.6 1.9 0.5
FY 06 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP								24	0.5	10	0.2	18	0.4	5	0.1					24 0 28 5 0 0	0.5 0.0 0.6 0.1 0.0 0.0
TOTAL INSTALLATION COST		1.3	0.0		1.3		2.1		0.5		0.6		0.5		0.1		0.0		0.0		6.4
TOTAL PROCUREMENT		3.7	0.0		3.3		2.4		0.5		0.8		0.5		0.1		0.0		0.0		11.3
METHOD OF IMPLEMENTATION:	L	0		ADMINISTR		FAD-TIME		1 MONTH		PRODUCT				MONTHS		L	0.0		0.0		
METHOD OF IN ELMERTATION.				/\Divilitio 1\	J (11 V L)	LEAD THAL		1 101011111		I NODOO!	IOIT LL	ND THVIL.	O	, MOITTIO							
CONTRACT DATES:	FY 2004:	Jun-04			ı	FY 2005:		Jul-06				FY 2006:		Jul-06				FY 2007:		NA	
DELIVERY DATES:	FY 2004:	Aug-06			1	FY 2005:		Dec-06				FY 2006:		Dec-06				FY 2007:		NA	
INSTALLATION SCHEDULE:		PY						1	<u>FY</u> 2	<u>06</u> 3	4		1	<u>FY (</u>	<u>07</u> 3	4		1	<u>F</u>	<u>Y 08</u> 3	4
INPUT		0								58	58		15	14	12	12	_			5	5
OUTPUT		0									58		58	15	14	12		12			5
INSTALLATION SCHEDULE:			1	<u>FY 09</u>	3	4		1	<u>FY</u> 2	10 3	4	. <u> </u>	1	<u>FY 1</u> 2	<u>1</u> 3	4		TC		<u>TOTAL</u>	
INPUT				9	9					5								0		202	
OUTPUT			5		9	9					5							0		202	

Notes/Comments

Ten (10) MODEMs required for production acceptance testing, no installation required.

Three (3) EBEMs (Enhanced Bandwidth Efficient Modem) will be provided to (V)7 and (V)9 vendors for integration into Original Equipment Manufacturer (OEM) terminals.

Initial deliveries are longer than 6 months; subsequent deliveries are 6 months

FY05 - Procurement of IP Modem Forward Fit Upgrades required for prior year purchases only.

FY05 - IP Modem Forward Fit Upgrades to EBEM are incorporated into Modem and therefore do not required additional install funds.

Quantity of IP Upgrades reduced because FY05 Equipment buy will already contain upgrade

Exhibit P-40, Budget Item Justification Unclassified Classification

EV 07

EV 08

FV na

EV 10

FV 11

Total

EV 06

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR10

MODELS OF SYSTEMS AFFECTED: SHF Terminals -- EBEM Modems - Shore

DESCRIPTION/JUSTIFICATION: Provides High Data Rate SHF Satellite Comunications for the Intra and Inter service message, data, voice and video Transmission and reception.

EV 05

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

	PY	ام	FY		FY 06		<u>Y 07</u>	FY 08	3	FY 09	i	<u>FY 10</u>		<u>FY 11</u>	1 -	TC	-1	Tota	<u> </u>
RDT&E PROCUREMENT: Kit Quantity	Qty	\$	Qty	\$	Qty	\$ Qty	\$								Qty	у	\$	Qty	\$
Installation Kits Installation Kits Nonrecurring Equipment Equipment	106	1.2	60	1.2														166	2.4
Engineering Change Orders IP Modem Forward Fit Upgrades to EBEM Training Equipment			106	1.1														106	1.1
Production Support Other (DSA)				0.2														0	0.2
Interim Contractor Support Installation of Hardware* Installation of Modems PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP	0	0.0	166 106 60	1.7 1.0 0.7	0 (0.0 0	0.0	0	0.0	0	0.0	0	0.0	0	0.0 0			166 0 106 60 0 0 0 0	1.7 0.0 1.0 0.7 0.0 0.0 0.0 0.0 0.0
FY TC EQUIP TOTAL INSTALLATION COST		0.0	0.0	1.7		0.0	0.0		0.0		0.0		0.0		0.0		0.000	0	0.0 1.7
TOTAL PROCUREMENT		1.2	0.0	4.2		0.0	0.0		0.0		0.0		0.0		0.0		0.0		5.4
METHOD OF IMPLEMENTATION: CONTRACT DATES:	FY 2004:	Jun-04	ADMINIS		LEAD-TIME: FY 2005:	1 Month Jan-06		PRODUCTION		D-TIME: FY 2006:		6 Months	•		FY 20	007:	N/	Ą	_
DELIVERY DATES:	FY 2004:	Mar-06			FY 2005:	Jul-06				FY 2006:	ı	NA			FY 20	007:	N	A	
INSTALLATION SCHEDULE:		PY				1	<u>FY</u> 2	<u>06</u> 3	4		1	<u>FY 07</u> 2 3		4	1		<u>FY 08</u>	3	4
INPUT		0						83	83										
OUTPUT		0							83	8	83								
INSTALLATION SCHEDULE:		-	1 2	<u>09</u> 3	4	1	<u>FY</u> 2	<u>10</u> 3	4		1	<u>FY 11</u> 2 3		4		<u>:</u>	<u> I</u>	OTAL	
INPUT															0			166	
OUTPUT															0			166	

Notes/Comments

Initial deliveries are longer than 6 months; subsequent deliveries are 6 months

FY05 - Procurement of IP Modem Forward Fit Upgrades required for prior year purchases only.

FY05 - IP Modem Forward Fit Upgrades to EBEM are incorporated into Modem and therefore do not require additional install funds.

FY05 - Installs shown in FY06 installation schedule due to late delivery

Quantity of IP Upgrades reduced because FY05 Equipment buy will already contain upgrade

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR107

MODELS OF SYSTEMS AFFECTED: EHF Terminals--AN/USC-38(V) FOT - Ship

DESCRIPTION/JUSTIFICATION: Provides jam resistant, low probability of intercept satellite communications and Full Milstar LDR Operational Capabilities (FMLOC) for shore stations, submarines and surface ships in an electromagnetic threat.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	<u>P\</u>	<u>(</u>		FY 04		FY 05		Y 06	FY 07		FY 08		FY 09	FY		FY 11		TC	. 1	To	tal
DDTAE	Qty	\$		Qty	\$	Qty	\$ Qty	\$	Qty	\$	Qty :	\$ Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	286	481.2		29	28.6	Var.	2.2 Var.	1.3										13	18.5	328	531.8
Data Training Equipment Production Support Other (DSA) Interim Contractor Support		15.7 6.6			2.6 0.9		2.9 1.0	0.0 0.1											1.5 1.2		22.7 9.9
Installation of Hardware PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP	251 251	261.8 261.8		22 22	16.8 16.8	13 11 2	9.4 7 8.4 3 1.1 4	6.2 3.1 3.1	0	0.0	0 0.1	0	0.0	0	0.0	0	0.0	13	10.6	306 287 6 0 0 0	304.8 290.1 4.1 0.0 0.0 0.0 0.0
FY 10 EQUIP FY 11 EQUIP FY TC EQUIP																		13	10.583	0 0 13	0.0 0.0 10.6
TOTAL INSTALLATION COST		268.4	0.0		17.7		10.5	6.3		0.0	0.0		0.0		0.0		0.0		11.8		314.7
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		765.3	0.0	ADMINISTR.	48.9		15.6 1 Month	7.5	PRODUCTION	0.0	0.0	18 Mont	0.0)	0.0		0.0		31.8		869.2
WETHOD OF IMPLEMENTATION.				ADMINISTR	ATIVE LEA	AD-TIME.	1 WOTH	,	-KODUCTION	N LEAD-1	IIVIE.	10 IVIOITI	.115								
CONTRACT DATES:	FY 2004:		Mar-04		F	Y 2005:	NA			F	Y 2006:	NA				FY 2007:	١	NA			
DELIVERY DATES:	FY 2004:		Sep-05		F	Y 2005:	NA			F	Y 2006:	NA				FY 2007:	١	NA			
INSTALLATION SCHEDULE:	_	PY					1	<u>FY 06</u> 2		4	1	<u>!</u> 2	FY 07 3	4	-	1	<u>FY</u>	7 <u>08</u> 3	4		
INPUT		286					3	4	0	0											
OUTPUT		284					2	3	4	0											
INSTALLATION SCHEDULE:			1	<u>FY 09</u> 2	3	4	1	<u>FY 1</u>		4	1	<u>F</u> `2	<u>/ 11</u> 3	4		TC		TOTAL			
INPUT																13		306			
OUTPUT																13		306			

Notes/Comments

Unit cost varies based on ship/sub configuration of procurement.

Production Support is required for AN-USC 38V terminal ongoing deliveries for production monitoring, acceptance testing and initial system familiarization.

One (1) Production Representative Model (FY98) will be used as a Test Asset; Two (2) ship configured terminals procured with FY00 shore funds were installed on ship.

FY04 is 18 SSBN/GN terminals for Submarine Warfare Division (N77). No SPAWAR installation funds required. Five (5) submarine Test and Training Equipment do not require installation.

FY04 procurement cost reflects additional FOT ancillary equipment

FY05/FY06 quantity of "Var." reflects procurement of ancillary equipment.

FY05 installation reflects two (2) ship units procured in FY04 and FY06 installation reflects three (3) sub units procured in FY03.

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR107

MODELS OF SYSTEMS AFFECTED: EHF Terminals -- AN/USC-38(V) FOT - Shore

DESCRIPTION/JUSTIFICATION: Provides jam resistant, low probability of intercept satellite communications and Full Milstar LDR Operational Capabilities (FMLOC) for shore stations, submarines and surface ships in an electromagnetic threat.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)	_				=,,,		_		_	-1/00	_				=		_						_	
	l Qtv	<u> </u>	1	ı	Gtv FY 0	<u>)4</u>	<u>FY</u> Qtv	<u>′ 05</u>	sl Qtv	Y 06	sl Qtv	<u>Y 07</u>	Qtv FY	<u>08</u> \$	FY (<u>)9</u>	Qtv	<u>/ 10</u>	E Qtv	<u>11</u> \$	TC Qtv	اء	Qtv <u>T</u>	otal ©
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	57	99.7			Qty	Þ	Giy		\$ Qiy		a Qiy	4	Qiy	•	Qiy		<u> </u>	Š	diy	•	7	11.0	Qty 64	110.7
Data Training Equipment Other - Equipment not requiring installation Production Support Other (DSA) Interim Contractor Support	13	6.3 5.2				0.3																0.7	13 0	6.3 6.3
Installation of Hardware* PRIOR YR EQUIP FY 04 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 10 EQUIP FY 10 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 12 EQUIP	40 40	46.7 46.7			6	4.7 4.7	4 4	3. 3.		4.		0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	7.4	62 55 0 0 0 0 0 0 0	67.0 59.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		46.7		0.0		4.7		3.		4.		0.0		0.0		0.0		0.0		0.0		7.4		67.0
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		157.9		0.0	ADMINISTRA	5.1	AD-TIME:	3.	1 Month	4.		0.0 ICTION LEA		0.0	18 Months	0.0		0.0)	0.0		19.0		190.3
					ADMINISTRA						TRODO	CHON LLA												
CONTRACT DATES:	FY 2004:		NA				FY 2005:		NA				FY 2006:		NA				FY 2007:		NA			
DELIVERY DATES:	FY 2004:		NA				FY 2005:		NA				FY 2006:		NA				FY 2007:		NA			
INSTALLATION SCHEDULE:	_	PY	-						1	2 <u>FY</u>	<u>06</u> 3	4		1	2 <u>FY</u> (0 <u>7</u> 3	4		1	2 EY	<u>' 08</u> 3	4		
INPUT		50							2	1	2	0												
OUTPUT		50							0	2	1	2												
INSTALLATION SCHEDULE:				1	<u>FY 09</u>	<u>9</u> 3	4	-	1	<u>F</u>	<u>′ 10</u> 3	4		1	<u>FY 11</u> 2	3	4		TC		TOTAL			
INPUT																			7		62			
OUTPUT																			7		62			

Notes/Comments

Two (2) Ship configured FOTs originally procured for training sites, transferred to Ship installations.

Thirteen (13) Single Channel Anti-Jam Man Portables (SCAMPS). Units do not require installation.

PY quantity of 57 reflects procurement of FOT units and ancillary equipment.

FY04: Production Support is required for AN-USC 38V terminal ongoing deliveries and installations for production monitoring, acceptance testing and initial system familiarization.

MODIFICATION TITLE: Satellite Communications Systems
COST CODE NR107

COST CODE NR
MODELS OF SYSTEMS AFFECTED: EHI

EHF Terminals--NECC - Ship

DESCRIPTION/JUSTIFICATION: Provides for satellite communications connectivity between shore stations, submarines, and surface ships. Includes network management; multiplexing and channel sharing; resource management; communications

management/planning; network control/monitoring; circuit switching and packet switching.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>	.1	FY 04	FY 05	FY.		<u>FY</u>		FY 09	FY 10	FY 11	<u>TC</u>		Total
	Qty	\$	Qty 5	Qty	\$ Qty	\$ Qty	\$ Qty	\$	Qty \$	Qty	\$ Qty	\$ Qty	\$	Qty \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	233 3	0.9	21 4.6	6 4.	6 6	1.4						13	2.3	279 43.8
Data Other (Test Units)	4	0.6												4 0.6
Training Equipment	4	0.0												4 0.6
Production Support Other (DSA) Interim Contractor Support		3.3 1.6	0.5 1.5			0.0 0.3								0 4.3 0 5.1
Installation of Hardware* PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP		0.8	17 9.5 17 9.5		2	5.9 0	0.0 0	0.0	0 0.0	0 (0.00	0.0 13		279 50.7 233 20.8 21 14.1 6 6.5 6 5.9 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0
FY TC EQUIP												13		13 3.4
TOTAL INSTALLATION COST TOTAL PROCUREMENT		2.4 0 7.3 0				6.3 7.7	0.0	0.0	0.0		0.0	0.0	3.9 6.3	55.8 104.4
METHOD OF IMPLEMENTATION:	5	7.3	ADMINISTRATIVE LE		1 Month	PRODUCTION			Months		0.0	0.0	6.3	104.4
CONTRACT DATES:	FY 2004:	Nov-03	NOMINIOTIVITYE EE	FY 2005:	Nov-04	rkobodnok	FY 2006:		lov-05		FY 2007:	NA		
DELIVERY DATES:	FY 2004:	Mar-04		FY 2005:	Mar-05		FY 2006:	N	May-06		FY 2007:	NA		
						F)/ 00			EV 07			F)/ 00		
INSTALLATION SCHEDULE:	PY	<u></u>			1	<u>FY 06</u> 2 3	4	1	<u>FY 07</u> 2 3	4	1	FY 08 2 3	4	
INSTALLATION SCHEDULE:	PY	_			1	2 3	<u>4</u>	1		4	1		4	
		_			1 0 0	0 4	- -	1		4	1		4	
INPUT	260	_	FY 09	4		2 3 0 4 0 4 <u>FY 10</u>	2	1	2 3 <u>FY 11</u>	4	1	2 3	4	
INPUT	260	1	FY 09 2 3	4		2 3 0 4 0 4 <u>FY 10</u>	2	1	2 3	4	1		4	
INPUT	260	1		4		2 3 0 4 0 4 <u>FY 10</u>	2	1	2 3 <u>FY 11</u>	4	1 	2 3	4	

Notes/Comments

FY05: NECC unit cost reflects procurement of NECC chassis, TIP and ancillary equipment.

FY06: NECC unit cost reflects the procurement of NECC chassis and ancillary equipment.

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR107

MODELS OF SYSTEMS AFFECTED: EHF Terminals --NECC - Shore

DESCRIPTION/JUSTIFICATION: Provides for satellite communications connectivity between shore stations, submarines, and surface ships; includes network management, multiplexing and channel sharing, resource management, communications

management/planning; network control/monitoring; circuit switching and packet switching.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>	•	. FY		FY 05	. FY	06	FY 0)7	FY 08		FY 09	FY 1		FY 11		TC		Tota	!
	Qty	\$	Qty	\$	Qty	\$ Qty	\$	Qty	\$	Qty	\$	Qty 5	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	55	6.7	6	0.8	3	0.8 3	0.2												67	8.5
Data Training Equipment Production Support Other (DSA) Other (Test Units)	2	1.2		0.1		0.1	0.0												0	1.4
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 04 EQUIP FY 05 EQUIP	55 55	5.6 5.6	6	3.4 3.4		1.5 3	1.0		0.0	0 (0.0	0 0.0	0	0.0	0	0.0	0	0.0	67 55 6 3	11.5 5.6 3.4 1.5
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP						3	1.0												3 0 0 0 0 0	1.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		5.6	0.0	3.4		1.5	1.0		0.0		0.0	0.0		0.0		0.0		0.0		11.5
TOTAL PROCUREMENT		13.8	0.0	4.3		2.4	1.2		0.0		0.0	0.0)	0.0		0.0		0.0		21.6
METHOD OF IMPLEMENTATION:			ADMINIST	RATIVE LE	AD-TIME:	1 Months		PRODUCTIO	ON LEAD-T	IME:	4 N	Months								
CONTRACT DATES:	FY 2004:	Nov-03		I	FY 2005:	Nov-04			F	Y 2006:	N	lov-05			FY 2007:	1	NA			
DELIVERY DATES:	FY 2004:	Mar-04		ı	FY 2005:	Mar-05			F	FY 2006:	M	lay-06			FY 2007:	1	NA			
INSTALLATION SCHEDULE:	PY					1	<u>FY 0</u> 2	<u>)6</u> 3	4	1		<u>FY 07</u> 2 3	4		1	<u>FY</u>	<u>′ 08</u> 3	4		
INPUT	64					0	0	2	1					'-						
OUTPUT	64					0	0	2	1											
				09			FY					<u>FY 11</u>								
INSTALLATION SCHEDULE:			1 2	3	4	1	2	3	4	1_		2 3	4		TC		TOTAL			
INPUT															0		67			
OUTPUT															0		67			

Notes/Comments

PY quantity of 55 reflects procurement and install of 55 NECC quantities and TIP cards.

Two (2) test units procured in PY will not be installed

NECC cost includes MDR (TIP) capability integrated into NECC Chassis.

UNCLASSIFIED

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR11
MODELS OF SYSTEMS AFFECTED: Com

Comm. Satellite--INMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband

DESCRIPTION/JUSTIFICATION: Provides increased bandwidth (upto 128kbps) to the existing INMARSAT B (64 kbps) hardware

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)																		
	<u>PY</u>	-1		Y 05	FY 06	FY		FY 08		FY 09	FY 1		<u>FY 1</u>	<u>1</u>	<u>TC</u>	-1	Total	- 1
RDT&E PROCUREMENT: Kit Quantity	Qty	\$	Qty	\$	Qty	\$ Qty	\$	Qty	\$ Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	100	2.8 0.3	86	2.3													186 0	5.1 0.3
Training Equipment Production Support Other (DSA)		0.9		0.7													0	1.6
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP	92 92	2.6 2.6	92 6 86	2.9 0.2 2.7	0 0	0	0.0	0	0.0 0	0.0	0	0.0	0	0.0	0	0.0	184 98 86 0 0 0 0	5.5 2.8 2.7 0.0 0.0 0.0 0.0 0.0 0.0
FY TC EQUIP TOTAL INSTALLATION COST		2.6	0.0	2.9	0.	0	0.0		0.0	0.0	1	0.0		0.0		0.0	0	0.0 5.5
TOTAL PROCUREMENT		6.6	0.0	5.9	0.		0.0		0.0	0.0		0.0		0.0		0.0		12.4
METHOD OF IMPLEMENTATION:	•	•	ADMINIS	TRATIVE LEAD	-TIME:	3 Months	F	PRODUCTION	LEAD-TIM	E:	3 Months							
CONTRACT DATES:	FY 2004:	Nov-03		FY	′ 2005:	Nov-04			FY 20	06:	NA			ı	FY 2007:	1	NA .	
DELIVERY DATES:	FY 2004:	Feb-04		FY	2005:	Feb-05			FY 20	06:	NA			ı	FY 2007:	1	NA .	
INSTALLATION SCHEDULE:		PY				1	<u>FY 06</u> 2	i 3 4		1	<u>FY 0</u> 2	<u>7</u> 3	4	-	1	<u>FY</u>	<u>08</u> 3	4
INPUT		184																
OUTPUT		184																
INSTALLATION SCHEDULE:			1 2	Y 09 3	4	1	<u>FY 10</u> 2	3 4		1	<u>FY 1</u> 2	<u>1</u> 3	4	_	TC		<u>TOTAL</u>	
INPUT															0		184	
OUTPUT															0		184	

Notes/Comments

Two (2) units are test terminals. No install required.

February, 2006

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR11

MODELS OF SYSTEMS AFFECTED: Comm. Satellite--C band/CWSP (Ship)

DESCRIPTION/JUSTIFICATION: Provides C and Ku wide band SATCOM terminals supporting capabilities such as Automated Digital Multiplexing System (ADMS), telemedicine, official and unofficial phones,

public affairs officer information, imagery, Meteorology and Oceanography Command (METOC).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	<u>P\</u>	<u>Y</u> \$		<u>FY 05</u>	اء	FY 0		FY.		FY C		FY.			<u>′ 10</u>	FY ·		<u>TC</u>			otal
RDT&E PROCUREMENT: Kit Quantity	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Installation Kits Nonrecurring Equipment Equipment (Upgrade) Prior Year Equipment (FC1 Upgrade) Prior Year Equipment (FC2 Upgrade)	31 Var 15 33	27.6 4.4 0.3 0.3		Var	0.5	0	0.0	0	0.0	0	0.0	0	0.0					0	0.0	Var Var 15 33	28.1 4.4 0.3 0.3
Data Training Equipment Production Support Other (DSA) Interim Contractor Support	2	2.6 2.7 1.3			0.1															2 0 0	2.6 2.8 1.3
Installation of Hardware Installation of Hardware(Upgrade) PRIOR YR EQUIP PRIOR YR EQUIP (Upgrade) PRIOR YR EQUIP (FC1 Upgrade) PRIOR YR EQUIP (FC2 Upgrade)	31 Var 31 Var 15 33	34 4.8 34.3 4.2 0.0 0.6		Var	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	Var Var 31 Var 15 33	34.9 4.8 34.3 4.2 0.0 0.6
FY 05 EQUIP (FC4 Equipment) FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP				Var	0.5															Var 0 0 0 0 0 0	0.5 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		40.4 78.3	0.0).5 1.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		41.0 79.4
METHOD OF IMPLEMENTATION:			ADMINISTRATIVE			3 Months	0.0			PRODUCT		AD-TIME:		6-9 Month		ths for upgr			0.0		79.4
CONTRACT DATES:	FY 2004:		NA		ı	FY 2005:		NA				FY 2006:		NA				FY 2007:		NA	
DELIVERY DATES:	FY 2004:		NA		l	FY 2005:		NA				FY 2006:		NA				FY 2007:		NA	
INSTALLATION SCHEDULE:		PY						1	2 <u>FY</u>	0 <u>6</u> 3	4	-	1	<u>FY</u> 2	<u>′ 07</u> 3	4		1	<u>FY</u> 2	08 3	4
INPUT		Var																			
OUTPUT		Var																			
INSTALLATION SCHEDULE:			1	<u>FY 09</u> 2	3	4	•	1	<u>FY</u> 2	1 <u>0</u> 3	4	-	1	<u>FY</u> 2	<u>' 11</u> 3	4		TC		<u>TOTAL</u>	
INPUT																		0		Var	
OUTPUT																		0		Var	

Notes/Comments

No install funds required for training equipment.

Exhibit P-40, Budget Item Justification Unclassified Classification

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR117

MODELS OF SYSTEMS AFFECTED: Global Broadcast Service-- Single (Receive Suite)

DESCRIPTION/JUSTIFICATION: GBS with single antenna configuration: Commercial off the shelf (COTS) receive only satellite communications terminals with a single antenna, modems and ancillary hardware and processing equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	PY			FY 05	<u>i</u> .	FY 06		FY 07		FY (FY 0		FY 10		FY 11			<u>Tota</u>	<u> </u>
	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$ Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring	47			0	0.0		0.0		0.0	0	0.0	0	0.0				34	00.0	51	04.0
Equipment Equipment Backfit/Upgrade Kit	17	7.1		0	0.0	0	0.0	0	0.0	U	0.0	U	0.0				34	26.9	51	34.0
IP Backfit	7	2.7																	7	2.7
Engineering Change Orders	,	2.1																	,	2.1
Other		0.8																	0	0.8
Training Equipment		0.0																	O	0.0
Production Support		3.1			0.2														0	3.3
Other (DSA)		0.5			0.1													2.5	0	3.0
Interim Contractor Support																		-		
Installation of Hardware*	5	5.7		7	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0 0	.0 34	17.5	46	23.6
PRIOR YR EQUIP	5	5.7		7	0.5														12	6.1
FY 05 EQUIP																			0	0.0
FY 06 EQUIP																			0	0.0
FY 07 EQUIP																			0	0.0
FY 08 EQUIP																			0	0.0
FY 09 EQUIP																			0	0.0
FY 10 EQUIP																			0	0.0
FY 11 EQUIP																			0	0.0
FY TC EQUIP																	34	17.5	34	17.5
FY TC EQUIP - IP Backfit		0.4			0.5				0.0									00.0	0	0.0
TOTAL INSTALLATION COST		6.1	0.0		0.5		0.0		0.0		0.0		0.0		0.0		.0	20.0		26.7 67.4
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		19.8	0.0		0.7	LEAD-TIME:	0.0	2 Months	0.0	PRODUCT	0.0	D TIME.	0.0	3 Months	0.0		.0	46.9		67.4
METHOD OF IMPLEMENTATION:				ADMINISTR	AIIVE	LEAD-TIME:		2 Months	1	PRODUC	I ION LEA	AD-TIME:		3 Months						
CONTRACT DATES:	FY 2004:		Jan-05			FY 2005:		NA				FY 2006:		NA			FY 2007:		NA	
DELIVERY DATES:	FY 2004:		Apr-05			FY 2005:		NA				FY 2006:		NA			FY 2007:		NA	
								_	<u>FY (</u>					FY 07	_				<u> </u>	
INSTALLATION SCHEDULE:	_	PY					-	1	2	3	4		1	2	3	4	1	2	3	4
INPUT		12																		
INPUT		12																		
OUTPUT		12																		
				FY 09)				FY 1	0				FY 11						
INSTALLATION SCHEDULE:			1	2	3	4		1	2	<u>~</u> 3	4		1		3	4	TC		TOTAL	
HIGH TELEVITOR GOTTEBOLE.					J		-			5						<u> </u>			TOTAL	
INPUT																	34		46	
INFUI																			4n	
																	04		.0	
OUTPUT																	34		46	

Notes/Comments

Unit cost varies due to mix of Ship, Shore, and quantity discounts afforded by other Services buys per year.

Twleve (12) PY assets are being converted to 6 dual receive suites.

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR117

MODELS OF SYSTEMS AFFECTED: Global Broadcast Service--Dual (Receive Suite)

DESCRIPTION/JUSTIFICATION: GBS with dual antenna configuration: Commercial off the shelf (COTS) receive only satellite communications terminals with a single antenna, modems and ancillary hardware and processing equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT N	IILES I ONES.																				
FINANCIAL PLAN: (\$ in millions)	DV	,		F)/ 0	_	FV 00		E)/ 07		EV 00		F)/ 00		EV 40		EV.44		то.		T-1-1	
	Qty	<u>(</u> 		FY 0	<u>5</u> \$	FY 06 Qty	\$	FY 07 Qty	\$	FY 08 Qty	<u>s</u>	FY 09 Qty	\$	FY 10 Qty	s s	FY 11 Qty	\$	TC Qty	\$	Total Qty	۰
RDT&E	Qty	Ф		Qiy	Đ	Qiy	φ	Qıy	Ф	Qiy	φ	Qıy	Ф	Qiy	Þ	Qıy	Ф	Qiy	Φ	Qiy	Φ
PROCUREMENT:																					
Kit - Equipment Conversion: Single to Dual	6	2.6																		6	2.6
Kit - Equipment Conversion: Various	Var.	1.5																		Var.	1.5
Equipment	13	7.5		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0					23	22.8	var. 36	30.3
IP Backfit NRE	13	6.6		U	0.0	U	0.0	U	0.0	U	0.0	U	0.0					23	22.0	0	6.6
IP Backfit NRE IP Backfit Kit - Production Articles	27	10.0																		27	
KA 1Ghz LNB - ECP	21	10.0		73	2.7															73	10.0 2.7
Ku Backfit - ECP				13	2.1															0	0.0
Terminal Upgrades	4	0.4																		4	
Other	4	0.1 0.7																		0	0.1 0.7
		0.7																		U	0.7
Training Equipment Production Support		5.3			0.8															0	6.1
							0.0												4.0		
Other (DSA) Interim Contractor Support		2.3			0.5		0.2												1.9	0	4.8
Installation of Hardware*	19	8.8		21	3.3	2	2.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	23	14.4	65	20.6
PRIOR YR EQUIP (includes IP/KU Backfits)	19	8.8		21	3.3	2	2.2	U	0.0	U	0.0	U	0.0	U	0.0	U	0.0	23	14.4	42	28.6 14.3
FY 05 EQUIP - IP/Ku Backfits	19	0.0		21	3.3	2	2.2													0	0.0
FY 05 EQUIP - IF/RU BACKIIIS FY 05 Upgrades																				0	0.0
FY 06 EQUIP																				0	0.0
FY 07 EQUIP																				0	0.0
FY 08 EQUIP																				0	0.0
FY 09 EQUIP																				0	0.0
FY 10 EQUIP																				0	0.0
FY 11 EQUIP																				0	0.0
FY TC EQUIP																		23	14.4	23	14.4
FY TC EQUIP - IP Backfit																		20	14.4	0	0.0
TOTAL INSTALLATION COST		11.1	0.	0	3.8		2.4		0.0		0.0		0.0		0.0		0.0		16.2		33.5
TOTAL PROCUREMENT		45.4	0.		7.2		2.4		0.0		0.0		0.0		0.0		0.0		39.0		94.0
METHOD OF IMPLEMENTATION:	L	.0.1	0.	ADMINISTR		EAD-TIME:		Months		RODUCTION		D-TIME:		3 Months	0.0		0.0		00.0		0 1.0
METHOD OF IMPLEMENTATION.				71011111011							0.1 22/12	<u>.</u>		0 1110111110							
CONTRACT DATES:	FY 2004:		Jan-05			Y 2005:	-	Dec-05				FY 2006:		NA				FY 2007:		NA	
CONTRACT DATES.	1 1 2004.		Jan-05			1 2005.		DEC-03				1 2000.		INA				1 1 2007.		INA	
DELIVERY DATES:	FY 2004:		Apr-05		F	Y 2005:	N	∕lar-05			F	FY 2006:		NA				FY 2007:		NA	
									FY 06	i				FY 07	,				FY 0	8	
INSTALLATION SCHEDULE:		PY						1 3	2	3	4		1	2	3	4		1	2	3	4
INCOMEDITION CONEDCE.	-	 _								0		-			0			· '			
INPUT		40								2											
		.0								_											
OUTPUT		36						4			2										
0011 01		30						7			2										
				FY 0	9				FY 10	<u>)</u>				FY 11							
INSTALLATION SCHEDULE:			1	2	3	4		1 2	2	3	4		1	2	3	4		TC		TOTAL	
			-									-									
INPUT																		23		65	

Notes/Comments

OUTPUT

Unit cost varies due to mix of Ship, Shore, and quantity discounts afforded by other Services buys per year.

Twelve (12) PY single antenna assets converted to six (6) dual antenna configurations.

Eight (8) IP Back Fit Kit Production Articles are C4I lab assets and do not require installation.

Various - Procurement of Sub components to complete IP Conversion and PITCO of IP Backfit Kits

FY05 - KA 1Ghz Low Noise Block (LNB) is Lowest Replaceable Unit (LRU) and does not require installation funds

Two (2) Training Equipment - Backfit Kits moved from GBS - Shore P3A in Prior Year

FY05/06 - Fluctuation in Installation unit cost is due to mix of Forward Fit and Backfits

FY05 - Contract date slip from PB06 due to extended price negotiations with Raytheon

65

23

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR117

MODELS OF SYSTEMS AFFECTED: Global Broadcast Service--Subs (Receive Suite)

DESCRIPTION/JUSTIFICATION: GBS with submarine configuration: Commercial off the shelf (COTS) receive only satellite communications terminals with a SubHdr antenna modification, modems and ancillary hardware and processing equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	I Qtv	\$		FY 05 Qty	<u>5</u> \$	FY 06 Qty	<u>S</u> \$	<u>FY</u> Qty		E Qty	<u>Y 08</u> \$	FY (<u>09</u> \$	FY 1 Qty	<u>0</u> §	FY :	<u>11</u> \$		<u>C</u> \$	To Qty	<u>otal</u> ∉I
RDT&E	Qty	Ψ		Qty	ę	Qty	Ψ	Qty		ψ Qty	4	, Qty	Ψ	Qty	4	o Qty	Ψ	Qty	ę	Qty	Ψ
PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment	32	9.4		0	0.0													34	20.1	66	29.5
Equipment Nonrecurring	02	0		, and the second	0.0													0.	20	00	20.0
IP Backfit	30	8.7		4	1.5															34	10.2
Data																					
Training Equipment																					
Production Support		9.1			0.7															0	9.8
Other (DSA)		2.4			0.2														2.3	0	4.9
Interim Contractor Support																					
Installation of Hardware*	29	4.0		28	1.8	0	0.0	0	0.0	0 0	0.0	0	0.0	0	0.0	0	0.0	34	5.1	91	10.9
PRIOR YR EQUIP	29	4.0		28	1.8															57	5.8
FY 05 EQUIP																				0	0.0
FY 06 EQUIP																				0	0.0
FY 07 EQUIP																				0	0.0
FY 08 EQUIP																				0	0.0
FY 09 EQUIP																				0	0.0
FY 10 EQUIP																				0	0.0
FY 11 EQUIP																				0	0.0
FY TC EQUIP FY TC EQUIP - IP Backfit																		34	5.1	34 0	5.1 0.0
TOTAL INSTALLATION COST		6.4	0.0		2.0		0.0		0.0	1	0.0	`	0.0		0.0	\	0.0		7.4	U	15.8
TOTAL INSTALLATION COST		33.6			4.2		0.0		0.0		0.0		0.0		0.0		0.0		27.5		65.3
METHOD OF IMPLEMENTATION:	<u> </u>	55.0				LEAD-TIME:	0.0	2 Months	0.0			AD-TIME:		2 Months	0.0	<u>'</u>	0.0		21.5		00.0
				7.5				2			01.01122	.,		2 1110111110							
CONTRACT DATES:	FY 2004:		Jan-05			FY 2005:		Apr-05				FY 2006:		NA				FY 2007:		NA	
DELIVERY DATES:	FY 2004:		Mar-05			FY 2005:		Nov-05				FY 2006:		NA				FY 2007:		NA	
		51/								<u>′ 06</u>				FY 0					FY.		
INSTALLATION SCHEDULE:	_	PY						1	2	3	4	_	1	2	3	4		1	2	3	4
INPUT		57																			
		0.																			
OUTPUT		50						7													
				FY 09	!				FY '	<u>10</u>				FY	11						
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	_	1	2	3	4		TC		<u>TOTAL</u>	
INPUT																		34		91	
OUTPUT																		34		91	

Notes/Comments

Unit costs vary due to mix of Ship, Submarine and Shore terminal configurations and to quantity discounts afforded by other Services buys per year.

Three (3) sub-surface receive suites (SSRS) to be used as training equipment at SubSchool Groton were installed with shore funds.

Procurement cost include enclosure fabrication, performance of integration testing and PITCO.

FY05 - (6) Units do not require installation costs (4 of FY05 and 2 of PY)

FY05 - Four (4) Units transferred from the GBS - Shore P3A.

FY05 - Procurement on Lead time longer than two months due to combined buy on Airforce Contract

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR117

MODELS OF SYSTEMS AFFECTED: Global Broadcast Service - Shore

DESCRIPTION/JUSTIFICATION: Global Broadcast Service, commercial off-the-shelf (COTS) receive only satellite communications terminals with antennas, modems, and ancillary hardware and processing equipment

Navy portion of joint services program to deliver continuous, high speed, one way information flow of high volume data to ship and shore units and special operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																			
	<u>PY</u>	±1	FY 05 Qty		<u>/ 06</u>	FYC		FY (FY 09	- 1	FY 10	- 1	FY 11		<u>TC</u>	-1	Tota	<u>al</u>
RDT&E	Qty	\$	Qty	\$ Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT:																			
Kit Quantity Installation Kits																			
Installation Kits Nonrecurring																			
Equipment	15 2	2.4		0.0	0.0	0	0.0	0	0.0	0	0.0					12	2.3	27	4.7
Equipment Backfit - IP Backfit			8	5.0														8	5.0
Engineering Change Orders Data																			
Training Equipment - Backfit kits		2.5																5	2.5
Production Support).5		0.3														0	0.8
Other (DSA) Interim Contractor Support		0.2		0.1														0	0.2
Installation of Hardware*	18 3	3.1	13	0.2 0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.2	43	3.5
PRIOR YR EQUIP		3.1	5	0.1														23	3.2
FY 05 EQUIP			8	0.1														8	0.1
FY 06 EQUIP FY 07 EQUIP																		0 0	0.0
FY 08 EQUIP																		0	0.0
FY 09 EQUIP																		0	0.0
FY 10 EQUIP FY 11 EQUIP																		0	0.0
FY TC EQUIP																12	0.2	12	0.0
TOTAL INSTALLATION COST		3.3 0.0		0.2	0.0		0.0		0.0		0.0		0.0		0.0	12	0.2		3.7
TOTAL INSTALLATION COST TOTAL PROCUREMENT		3.3 0.0 3.7 0.0		5.5	0.0		0.0		0.0	D TIME:	0.0	2 Months	0.0		0.0	12			
TOTAL INSTALLATION COST				5.5	0.0	2 Months	0.0		0.0	D-TIME:	0.0	3 Months				12	0.2		3.7
TOTAL INSTALLATION COST TOTAL PROCUREMENT				5.5	0.0		0.0		0.0 FION LEA	D-TIME: FY 2006:	0.0	3 Months			0.0	FY 2007:	0.2 2.6	NA	3.7
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES:	FY 2004:	Jan-05		5.5 TVE LEAD-T FY 2005	0.0 IME:	2 Months Apr-05	0.0		0.0 ΓΙΟΝ LEA	FY 2006:	0.0	NA			0.0	FY 2007:	0.2 2.6	NA	3.7
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:	8	3.7 0.0		5.5 TVE LEAD-T	0.0 IME:	2 Months	0.0		0.0 ΓΙΟΝ LEA		0.0				0.0		0.2 2.6		3.7
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES:	FY 2004:	Jan-05		5.5 TVE LEAD-T FY 2005	0.0 IME:	2 Months Apr-05	0.0		0.0 ΓΙΟΝ LEA	FY 2006:	0.0	NA			0.0	FY 2007:	0.2 2.6	NA	3.7
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES:	FY 2004: FY 2004:	Jan-05 Apr-05		5.5 TVE LEAD-T FY 2005	0.0 IME:	2 Months Apr-05	0.0 FY 0	PRODUCT	0.0 ΓΙΟΝ LEA	FY 2006:	0.0	NA NA <u>FY 07</u>	0.0		0.0	FY 2007:	0.2 2.6	NA NA 08	3.7
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES:	FY 2004:	Jan-05 Apr-05		5.5 TVE LEAD-T FY 2005	0.0 IME:	2 Months Apr-05	0.0	PRODUCT	0.0 ΓΙΟΝ LEA	FY 2006:	0.0	NA NA		4	0.0	FY 2007:	0.2 2.6	NA NA	3.7
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES:	FY 2004: FY 2004:	Jan-05 Apr-05		5.5 TVE LEAD-T FY 2005	0.0 IME:	2 Months Apr-05	0.0 FY 0	PRODUCT	0.0 FION LEA	FY 2006:	0.0	NA NA <u>FY 07</u>	0.0	4	0.0	FY 2007:	0.2 2.6	NA NA 08	3.7 16.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT	FY 2004: FY 2004: PY 31	Jan-05 Apr-05		5.5 TVE LEAD-T FY 2005	0.0 IME:	2 Months Apr-05	0.0 FY 0	PRODUCT	0.0 FION LEA	FY 2006:	0.0	NA NA <u>FY 07</u>	0.0	4	0.0	FY 2007:	0.2 2.6	NA NA 08	3.7 16.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE:	FY 2004: FY 2004: PY	Jan-05 Apr-05		5.5 TVE LEAD-T FY 2005	0.0 IME:	2 Months Apr-05	0.0 FY 0	PRODUCT	0.0 FION LEA	FY 2006:	0.0	NA NA <u>FY 07</u>	0.0	4	0.0	FY 2007:	0.2 2.6	NA NA 08	3.7 16.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT	FY 2004: FY 2004: PY 31	Jan-05 Apr-05	ADMINISTRAT	5.5 TVE LEAD-T FY 2005	0.0 IME:	2 Months Apr-05	6.0 FY C 2	PRODUCT	0.0 FION LEA	FY 2006:	0.0	NA NA <u>FY 07</u> 2	0.0	4	0.0	FY 2007:	0.2 2.6	NA NA 08	3.7 16.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT	FY 2004: FY 2004: PY 31	Jan-05 Apr-05		5.5 TVE LEAD-T FY 2005 FY 2005	0.0 IME:	2 Months Apr-05	0.0 FY 0	PRODUCT	0.0 FION LEA	FY 2006:	0.0	NA NA <u>FY 07</u>	0.0	4	0.0	FY 2007:	0.2 2.6	NA NA 08	3.7 16.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT OUTPUT INSTALLATION SCHEDULE:	FY 2004: FY 2004: PY 31	Jan-05 Apr-05	ADMINISTRAT	5.5 TVE LEAD-T FY 2005 FY 2005	0.0 IME:	2 Months Apr-05	6.0 FY 0 2	PRODUCT 06 3	0.0 FION LEA	FY 2006:	0.0	NA NA FY 07 2	3	4	0.0	FY 2007: 1 TC	0.2 2.6	NA NA 08 3	3.7 16.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT OUTPUT	FY 2004: FY 2004: PY 31	Jan-05 Apr-05	ADMINISTRAT	5.5 TVE LEAD-T FY 2005 FY 2005	0.0 IME:	2 Months Apr-05	6.0 FY 0 2	PRODUCT 06 3	0.0 FION LEA	FY 2006:	0.0	NA NA FY 07 2	3	4	0.0	FY 2007: FY 2007:	0.2 2.6	NA NA 08 3	3.7 16.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT OUTPUT INSTALLATION SCHEDULE:	FY 2004: FY 2004: PY 31	Jan-05 Apr-05	ADMINISTRAT	5.5 TVE LEAD-T FY 2005 FY 2005	0.0 IME:	2 Months Apr-05	6.0 FY 0 2	PRODUCT 06 3	0.0 FION LEA	FY 2006:	0.0	NA NA FY 07 2	3	4	0.0	FY 2007: 1 TC	0.2 2.6	NA NA 08 3	3.7 16.8

Notes/Comments

Three (3) sub-surface receive suites (SSRS) to be used as training equipment at SubSchool Groton were purchased with sub funds.

Training equipment includes 5 Sub IP Backfit kits for Trident Training Facility and Sub-School Groton

Two (2) Training Equipment - Backfit Kits moved to GBS - Dual P3A in Prior Year

FY05 - Four (4) Units transferred to the GBS - Sub P3A.

FY05 - Procurement on Lead time longer than three months due to combined buy on Air Force Contract

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR118

Notes/Comments

MODELS OF SYSTEMS AFFECTED: JMINI Control System - NMS

DESCRIPTION/JUSTIFICATION: The Network Management System (NMS) component of the JMINI Control System provides communications resource planning and management via secure WAN connections between the control stations and remote

user. Will provide dynamic centralized control of joint operable 5 KHz and 25 KHz ultra high frequency military satellite communications.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)													
	<u>PY</u>	. 1	FY 05	FY 06	<u>FY</u>				<u>Y 10</u>	FY 11	<u>TC</u>	<u>Tc</u>	<u>otal</u>
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	\$	Qty	\$ Qty	\$ Qty	\$ Qty	\$ Qty	\$ Qty	\$ 0	Qty \$	Qty	\$ Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	54 5	6.6	10 5	5.9 0	0.0	0.0 0	0.0	0.0			0	0.0 64	62.5
Training Equipment Production Support Other (DSA) Interim Contractor Support		4.5	C	0.6								0	5.1
Installation of Hardware* PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP	54	3.8		0.3	0.0 0	0.0 0	0.0 0	0.0 0		0 0.0	0	0.0 64 54 10 0 0 0 0 0 0	4.1 3.8 0.3 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		3.8 0.0).3	0.0	0.0	0.0	0.0	0.0	0.0		0.0	4.1
TOTAL PROCUREMENT	6	4.9 0.0		3.8	0.0	0.0	0.0	0.0	0.0	0.0		0.0	71.7
METHOD OF IMPLEMENTATION:			ADMINISTRATI	/E LEAD-TIME:	1 Month	PRODUC	TION LEAD-TIME:	6 Month	is				
CONTRACT DATES:	FY 2004:	Dec-03		FY 2005:	Dec-04		FY 2006:	NA			FY 2007:	NA	
DELIVERY DATES:	FY 2004:	Jul-04		FY 2005:	Jul-05		FY 2006:	NA			FY 2007:	NA	
INSTALLATION SCHEDULE:	PY	<u>. </u>			1	<u>FY 06</u> 2 3	4	1 2	<u>Y 07</u> 3	4	1	<u>FY 08</u> 2 3	4
INPUT	64												
OUTPUT	64												
INSTALLATION SCHEDULE:		1	<u>FY 09</u> 2 3	4	1	<u>FY 10</u> 2 3	4	1 2	<u>Y 11</u> 3	4	TC	<u>TOTAL</u>	
INPUT											0	64	
OUTPUT												64	
0011 01											0	64	

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	PRIATION/BUDGET ACTIVITY		•	DUC	CTION	SCHE	DULI	Ε																		DA	ATE								
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	SAZ COMMUNICATIONS & ELECTRONIC EQUIPMENT	1		-	ACCEPT	BAL	-	SCAL Y	VEAD		05						ateilite	Comi		AL YEA			6			-1	٥.	21500		FISCA		D	07		
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NR105	5/25 KHz MD-1324 IP Upgrade	06	4	44	0	44															Α							24	20						
NR105	5/25 KHz MD-1324 IP Upgrade	07	- ;	39	0	39																						Т	T		Α		T		15 20
																												Т	T				T		
NR106	SHF TerminalsAN/WSC-6(V)7 - Ship (Note 1)	04		17	15	2										2												Т	T				T		
																																		П	
NR106	SHF TerminalsAN/WSC-6(V)9 - Ship	04		41	25	16										4	4 4	4																П	
																																		ΠĪ	
NR106	SHF TerminalsAN/WSC-6(V)9 - Shore	05		2	0	2													2																
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NR106	SHF Terminals EBEM Modems - Ship	02		10	0	10																			10			1	\top	ΠŤ			1	\Box	
NR106	SHF Terminals EBEM Modems - Ship	04	1	119	0	119																		1	00 1	9								ī	
NR106	SHF Terminals EBEM Modems - Ship	05	1	48	0	148																		Α				100	3 48						
NR106	SHF Terminals EBEM Modems - Ship	06		24	0	24																		Α				24							
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NR106	SHF Terminals EBEM Modems - Shore	04	1	06	0	106														100	6							1	\top	ΠŤ			1 1	ΠŤ	
NR106	SHF Terminals EBEM Modems - Shore	05	1	66	0	166												Α					1	00 (36			1	\top	ΠŤ			1	ΠŤ	
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NR107	EHF TerminalsAN/USC-38(V) FOT - Ship	04		29	6	23								1 1		3	3 3	3	3	3	3	2						+	\top				T	r t	\neg
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NR117	Global Broadcast Service - Dual Backfit	05	_	73	0	73			+		-		\top	1 1			А	1		12	12	12	12 1	12	12	1		+	+	\vdash			+	一十	
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			PRODUCTION RATE			PROCUREMENT	LEAD-TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
NR101 Mini Dama-UHF Systems	Titan, McLean, VA									
NR105 5/25 KHz MD-1324 IP Upgrade	TBD									
NR106 SHF TerminalsAN/WSC-6(V)7 - Ship	Raytheon, Boston, MA	1	3	33	1	1	12	12	14	Months
NR106 SHF TerminalsAN/WSC-6(V)9 - Ship& Shore	Harris, Melbourne, FL	3	36	42	1	1	9	9	11	Months
NR106 SHF TerminalsEBEM Modems - Ship & Shore	VIASAT, Carlsbad, CA	5	200	250	1	1	31	6	33	Months
NR107 EHF TerminalsAN/USC-38(V) FOT - Ship & Shore	Raytheon, Marlborough, MA	7	7	84	1	1	18	18	20	Months
NR107 EHF Terminals NECC - Ship & Shore	AP Labs, Texas									
NR117 Global Broadcast Service Dual Backfit	Raytheon, Marlborough, MA & Reston, VA	6	12	96	2	2	4	4	8	Months
NR117 Global Broadcast Service Shore Backfit	Raytheon, Reston, VA	1	10	120	2	2	4	4	8	Months

Notes:

GBS Dual: Contract date slip from PB06 due to extended price negotiations with Raytheon
GBS Shore: Delivery schedule updated to reflect actual deliveries (delivery schedule was in error at FMB07)
5/25 KH2: Contract date slip from OSD07, OPNAV hold due to restructuring of architecture.

NAVMAT FORM 7110/4 (REVISED 11/77)

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	CLASSIFICATION																																						
			PI	RODU	СТІО	N SCI	HED	UL	E																				DA	TE									
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APPROF	PRIATION/BUDGET ACTIVITY																	P-1	ITEM	INON	IENC	LAT	URE									SU	BHEA	VD NC	<u>5.</u>				
DP,N - B	A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT																		Sate	llite C	Comm	unica	ations	Syste	ems					32	1500		52N	R					
			s		ACCEPT	BAL				F	ISCA	L YE	AR	08									AL YE		09								FISC	CAL YE	EAR	1	10		
COST	ITEM/MANUFACTURER		E	PROC	PRIOR	DUE	07							YEAR				08					CALEN		YEAF	₹			09					CALE		R YE/	AR	10	
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NR105	5/25 KHz MD-1324 IP Upgrade	07		39	35	4	4	-																			Ť						T						Ť
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		F	PRODUCTION RATE			PROCUREMEN	IT LEAD-TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
NR105 5/25 KHz MD-1324 IP Upgrade	TBD									

NAVMAT FORM 7110/4 (REVISED 11/77)

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BUDGET ITEM JUSTIFIC	ATION SHE	ĒΤ						DATE		February 20	006
APPROPRIATION/BUDGET ACTIVIT OP,N - BA2 COMMUNICATIONS & EL		PMENT				P-1 ITEM NOMEN BLI 3302 Joint Cor		ort (JCS) Eequipme	nt	SUBHEAD 52L4	
			FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY											
COST (in millions)			\$3.0	\$2.9	\$2.8	\$3.1	\$3.1	\$3.2	\$3.2	Cont	Cont

PROGRAM COVERAGE:

This line funds the Department of the Navy's portion of the Joint Communications Support Element (JCSE) Program. This program is jointly funded by Army, Navy, Marine Corps and Air Force. Funds procure various communications equipment including the following: Commercial Off The Shelf (COTS) small aperture Wide-band High Data Rate Satellite Terminals, Ultra High Frequency (UHF) next generation satellite systems, Multi-band spread spectrum Line of Sight (LOS) transmission systems, C4 Extension Package upgrades, Voice Over Internet Protocol (VOIP), Voice Over Secure Internet Protocol (VOSIP) and Everything Over Internet Protocol (EOIP) network data equipment per Department of Defence (DoD) architecture, Defense Message System (DMS) Tactical, Joint Worldwide Intelligence Communication System (JWICS), Communications Security (COMSEC) Secure Telephone Equipment (STE), Network COMSEC KG-250s, KG-21, Secnet 64 wireless Type I, Personal Communications Systems (PCS) to provide seamless integration of commercial cellular service to the tactical network, manpack multi-mode multi-band radios (JTRS) for the quick reaction element, Commercial Off the Shelf (COTS) Theater Deployable Communications (TDC) switch upgrades, Wide Area Network (WAN) Access for Global Information Grid (GIG) next generation multi-media, Broad Band Campus with Information Assurance (IA) suites, Global Broadcast System Time Division Multiple Access Interface Processor (GBS TIP), GBS receive suite upgrades, Video Teleconferencing (VTC) upgrades and assorted network call service manages, routers, and satellite Internet Protocol (IP) hubs serving up to 1,500 subscribers and transit cases.

INSTALLATION AGENT:

N/A

UNCLASSIFIED CLASSIFICATION

	COST ANALYSIS		DATE								February 2006	
APPROPR	ATION ACTIVITY		ı	P-1 ITEM NON	MENCLATURE							
	2 COMMUNICATIONS AND	ELECTRONIC E	UIPMENT	 BLI 3302 Joint	Communication	Support (JCS) E	equipment					
					E)/ 000E			E)/ 0000			EV 000E	
COST		ID —			FY 2005 UNIT	TOTAL		FY 2006 UNIT	TOTAL		FY 2007 UNIT	TOTAL
CODE	ELEMENT OF COST	CODE		QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
L4001	JCSE Modernization	A		1	3,002	3,002	1	2,911	2,911	1	2,788	2,788
	TOTAL CONTROL					3,002			2.044			2.700
	TOTAL CONTROL	•				3,002			2,911			2,788
Remarks:												

Department of the Navy Other Procurement, Navy Budget Item Justification Sheet Exhibit P-40

FY2007 PRESIDENTS BUDGET

Communications & Elec	tronicEquipment	Line 33	Item 03		P-1 Item Nome Electrical Powe			
Quantity		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Cost (in Millions)		2.9	1.3	1.1	1.2	1.3	1.3	1.4

Electrical Power Systems:

The Electrical Power Program is designed to provide highly reliable, continuous, high quality power subsystems to support Naval Network and Space Operations Command. Basic deficiencies in current power sources, couple with recent telecommunication system trends toward sophisticated, highly reliable, high speed, continuous accurate systems (e.g., various High Frequency, Low Frequency, Very Low Frequency Facilities), necessitate a continuing program to upgrade power systems. The Naval Network and Space Operations Command Electrical Power Plan provides the necessary requirements. In CONUS and overseas, where commercial power is available in sufficient quantity, it is utilized as the base system, even though its overall quality may be poor. Because these commercial systems are continually susceptible to blackout and various other types of power perturbations, suitable quick-start emergency power generators must be available to support operational loads. Some of the operational load is designated as "critical" and requires Uninterruptible Power Supply Systems for instantaneous application in case of loss or disturbance of the primary power source.

FY 2005 funds will also provide for an electrical upgrade to moor a second CVN at the Pier Delta Naval Base Kitsap - Bremerton.

Department of the Navy Other Procurement, Navy Cost Analysis Exhibit P-5

Program Cost Breakdown Exhibit P-5 Cost Analysis														DATE:	FEBRUARY	2006
Appropriation Code/CC/BA/BSA/Item Control N	lumber			38604.000												
1810 / BA 2 3303			Comm &	Electronics	Equipmen	nt										
Cost Elements	QTY	ID Code	FY 05 Unit Cost	FY 05 Total Cost	FY 06 Unit Cost	FY 06 Total Cost	FY 07 Unit Cost	FY 07 Total Cost	FY 08 Unit Cost	FY 08 Total Cost	FY 09 Unit Cost	FY 09 Total Cost	FY 10 Unit Cost	FY 10 Total Cost	FY 11 Unit Cost	FY 11 Total Cost
Replace 80 KVA UPS	1	0000	0001	000.	000.	0.586	000.	0001	0001	0001	0001	0.544	0001	000.	000.	0001
Replace 500 KVA UPS Main Comm Center	2	3303		0.465		0.672										0.679
Replace 400 KVA UPS, SATCOM Facility	1	3303						0.683		0.368		0.755				0.678
Replace 200 KVA UPS SATCOM Site	1	3303						0.462		0.393						
New SCADA System Phase 2, VLF Site	1	3303		0.298						0.412						
Replace Generators, Transmitter Site	1	3303		0.688										1.326		
Pier Delta CVN Power Upgrade	1	3303		1.492												
Total				2.943		1.258		1.145		1.173		1.299		1.326		1.357

Department of the Navy Other Procurement, Navy Budget Procurement History & Planning Exhibit P-5A

		BU	DGET PROCURE EXHIBIT P	MENT HISTORY AN	ID PLANNING						
C/BA/BSA	/Item Control Number					P-1 Line Item N	lomonolaturo		DATE:	FEBRUARY 20	06
Program Li						Communicatio		nice Equipmen	.+		
i rogram E	THE 3303		CONTRACT	1		DATE OF	ns and Electro	ilica Equipiliei	SPECS	SPEC	IF YES
COST	LINE ITEM/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
CODE	FISCAL YEAR	AND LOCATION	& TYPE	ВҮ	DATE	DELIVERY			NOW	REQ'D	AVAILABLE
3303	FY05										
3303	Replace 500 KVA UPA, Main Comm Center	Alpha Data Corp Ft. Walton Beach FL	fixed price	SPAWAR	6/05 30 days after	6/05	1	0.465	yes		
3303	New SCADA System Phase 2, VLF Site	tbd	fixed price	SPAWAR	funding available 30 days after	90 days after award date	1	0.298	yes		
3303	Replace 500 KW Generator, Main Comm Center	tbd	fixed price	SPAWAR	funding available	90 days after award date	1	0.688	yes		
3303	Pier Delta CVN Power Upgrade	tbd	tbd	Washington State		9/05	1	1.492	yes		
	TOTAL							2.943			

Department of the Navy Other Procurement, Navy Budget Procurement History & Planning Exhibit P-5A

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-5A										DATE: FERRIARY 0000				
Appropria	tion Code/CC/BA/BSA/Item Control Number	DATE: FEBRUARY 2006												
1810 / BA								P-1 Line Item Nomenclature Communications and Electronics Equipment						
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE			
3303	<u>FY06</u>													
	Replace 400KVA UPS System, SATCOM Facility	TBD	fixed price	SPAWARSYS COM Charleston, SC	30 days after funding available	90 days after award date	1	0.586	35% Complete	No	Aug 05			
	Replace 500 KVA UPS Main Comm Center	TBD	fixed price	SPAWARSYS COM Charleston, SC	30 days after funding available	90 days after award date	1	0.672	35% Complete	No	Aug 05			
	TOTAL							1.258						

Department of the Navy Other Procurement, Navy Budget Procurement History & Planning Exhibit P-5A

		В	UDGET PROCUR	EMENT HISTORY A	ND PLANNIN	G					
		DATE: FEBRUARY 2006									
Appropria	tion Code/CC/BA/BSA/Item Control Number	DAIL.	FEBRUART 20	00							
1810 / BA	2 / Program Line 3303	P-1 Line Item Nomenclature Communications and Electronics Equipment									
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	cost	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
3303	<u>FY07</u>										
	Replace 400 KVA UPS, SATCOM Facility	TBD	fixed price	SPAWARSYS COM Charleston, SC	30 days after funding available	90 days after award date	1	0.587	35% Complete	No	Aug 06
	Replace Emergency Stand By Equip Power System, Comm Center	TBD	fixed price	SPAWARSYS COM Charleston, SC	30 days after funding available	90 days after award date	1	0.558	35% Complete	No	Aug 06
	TOTAL							1.145			

UNCLASSIFIED

CLASSIFICATION

BUDGET ITEM JUSTIFIC	ATION SH	EET	DATE			February 2006				
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & EL	P-1 ITEM NOMENCLATURE BLI 3306 Navy Standard Integrated Personnel Systems (NSIPS)					SUBHEAD 52DG				
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		то сомр	TOTAL
QUANTITY	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
COST (in millions)	0.287	0.127								

The Navy Standard Integrated Personnel System (NSIPS) is a special-interest, major Automated Information System (AIS) to collect, process and distribute personnel and pay data within Navy and to various corporate level activities within DoD. NSIPS has achieved the integration of active and reserve military personnel systems within the Navy, improved the military personnel tracking process, consolidated processes and systems within life cycle areas of military personnel, and the functionality of existing Navy source data collection requirements. At FOC, NSIPS will operate web enabled on shore and in a disconnected/client-server operations afloat. NSIPS will maintain regional data warehouses as well as an all-Navy archival data warehouse. NSIPS FOC date is scheduled for March 2006, per its January 2005 Acquisition Program Baseline (APB).

FY 05 NSIPS replacing out of warranty servers and workstations as required. New hardware requirements are limited to only exigent hardware upgrades requirements and new unforeseen hardware requirements which may arise due to web enablement.

Hurricane Katrina Recovery Funds: Funding provides for the replacement of investment equipment at SPAWAR Systems Center, New Orleans destroyed as a result of Hurricane Katrina. These resources support the full reconstitution of operations and related infrastructure. Specifically, replacement costs are in the following areas:

Network and related infrastructure: Procures servers and ancillary equipment (various configurations) supporting the reconstitution of the Enterprise Server Environment.

Telephony: Provides for the replacement of the AVAYA telephone network supporting all facility telephony, to include the Systems Management Center (SMC) and the Customer Support Center (CSC). Provides for the replacement of Audio-Visual equipment and support network,

Computer Operations Infrastructure: Provides for the replacement of HVAC, Electrical Power Grids, Load banks, Uninterrupted Power Sources (UPS), Generators, and Fire suppression Systems.

P-1 Shopping List-Item No 81 - 1 of 5

Exhibit P-40, Budget Item Justification Unclassified Classification

UNCLASSIFIED CLASSIFICATION

		DATE														
	COST ANALYSIS							February 2006								
APPROPR	IATION ACTIVITY	SUBHEAD														
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQ	P-1 ITEM NOMENCLATURE Navy Standard Integrated Personnel Systems (NSIPS) 52DG														
Ti Ti								ST IN THOUSANDS OF DOLLARS								
				PY FY 2005						FY 200						
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL				
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST				
DG010	NSIPS HW Tech Refresh (Shore)		177													
DG020	NSIPS HW Tech Refresh (Ship)		2,428	var		67										
DG030	NSIPS Software Licenses		1,230													
DG777	Installation Costs		1,818			220										
7A45	Recovery, Telephones/Telephony Circuits						var		127							
Remarks:																

P-1 Shopping List-Item No 81-2 of 5

Exhibit P-5, Budget Item Justification Unclassified

DD FORM 2446, JUN 86

CLASSIFICATION

										A. DATE		
PROC	CUREMENT HISTORY AND PLANI	NING									Februa	ry 2006
B. APF	PROPRIATION/BUDGET ACTIVITY					C. P-1 ITE	M NOMENCL	.ATURE			SUBHEAD	
)P,N - B	A2 COMMUNICATIONS & ELECTRONIC EQUIPM	MENT					lard Integrat	ed Personne	el Syste	ems (NSIPS		
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST Delivery	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISION AVAILABI
OG020	NSIPS HW Tech Refresh (Ship)	05	VARIOUS	IDIQ	SPAWAR	Multiple	Multiple	Multiple	Var	Var	Yes	
7A45	Recovery, Telephones/Telephony Circuits	06	VARIOUS	IDIQ	SPAWAR	Multiple	Multiple	Multiple	Var	Var	Yes	
	ARKS											

P-1 Shopping List-Item No 81-3 of 5

Exhibit P-5a, Procurement History and Planning Unclassified Classification MODIFICATION TITLE: **NSIPS HW Refresh - Shore** February 2006 DG010

COST CODE:

MODELS OF SYSTEMS AFFECTED: Navy Standard Integrated Personnel (NSIPS)

DESCRIPTION/JUSTIFICATION: Shore sites consist of small, medium and large NSIPS Server and Workstations provided by NMCI to store, pass, and report personnel and pay data for

all Navy Active Duty and Reserve personnel. Enterprise sites are also included.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	PY	•	FY05	•	FY06		FY07		FY08		FY09	_	FY10	_	FY11		1		TC		TOTAL	
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring Equipment	var	4.5	var	0.0	var	0.0	var	0.0														4.5
Equipment Nonrecurring	vai	4.5	vai	0.0	Vai	0.0	vai	0.0														4.5
Engineering Change Orders																						
Data Training Equipment																						
Support Equipment																						
Other																						
Interim Contractor Support														0.0		0.0						
Installation of Hardware PRIOR YR EQUIP	90 90	3.3 3.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	90 90	3.3 3.3
FY 05 EQUIP	30	3.3																			0	0
FY 06 EQUIP																					0	0
FY 07 EQUIP																					0	0
FY 08 EQUIP FY 09 EQUIP																					0	0
FY 10 EQUIP																					0	0 0
FY 11 EQUIP																					0	0
TC EQUIP																					0	0
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		3.3 7.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		3.3 7.8
METHOD OF IMPLEMENTATION:		7.0	1	0.0	I	0.0		0.0			ISTRATI		DTIME:	0.0		0.0		0.0		0.0		7.0
	CONT	RACT	DATES:			FY 2004:		N/A			FY 2005	:	N/A		FY 2006:		N/A		FY 2007:		N/A	
	DELIV	ERY D	ATES:			FY 2004:		N/A			FY 2005	:	N/A		FY 2006:		N/A		FY 2007:		N/A	
				FΥ	<u>′ 06</u>				FY	07				F	Y 08				FY	09		
INSTALLATION SCHEDULE:	PY	_	1	2	3	4		1	2	3	4	_	1	2	3	4	-	1	2	3	4	_
INPUT	90)	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
OUTPUT	90)	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
INSTALLATION SCHEDULE:			1	<u>F\</u> 2	<u>/ 10</u> 3	4		1	<u>FY</u> 2	<u>11</u> 3	4		<u>TC</u>		<u>TOTAL</u>							
INPUT			0	0	0	0	-	0	0	0	0	_			90							
OUTPUT			0	0	0	0		0	0	0	0				90							

Exhibit P-3a, Individual Modification Program Unclassified

Classification

Notes/Comments

MODIFICATION TITLE: **NSIPS HW Refresh - Ship** February 2006

FY09

FY10

FY11

209

FY08

COST CODE: MODELS OF SYSTEMS AFFECTED: DG020

FY05

FY06

Navy Standard Integrated Personnel (NSIPS)
Each ship consist of small or medium NSIPS Server and Workstations to store, pass, and report personnel and pay data for ships company. DESCRIPTION/JUSTIFICATION:

FY07

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: ((\$ in millions)	
-------------------	------------------	--

	PY		FY05		FY06		FY07		FY08		FY09		FY10		FY11				IC		IOTAL	•	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other	var	3.3	var	0.1	var	0.0																3.4	
Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP TC EQUIP	203 203	3.0 3.0	6	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	209 203 6 0 0 0 0	3.2 3.0 0.2 0 0 0 0 0	
TOTAL INSTALLATION COST		3.0		0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		3.2	
TOTAL PROCUREMENT COST		6.3		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		6.6	
METHOD OF IMPLEMENTATION:										ADMINI	ISTRATI\	√E LEA	DTIME:										
	CONT	RACT	DATES:			FY 2004:		N/A		ı	FY 2005:		N/A	ı	FY 2006:		N/A	ı	FY 2007:		N/A		
	DELIV	ERY D	ATES:			FY 2004:		N/A			FY 2005:		N/A	1	FY 2006:		N/A	1	FY 2007:		N/A		
INSTALLATION SCHEDULE:	PY	_	1	2 <u>FY</u>	<u>′ 06</u> 3	4	. .	1	2 <u>FY</u>	<u>07</u> 3	4	_	1	2 <u>F</u>	<u>Y 08</u> 3	4		1	2 <u>FY</u>	<u>09</u> 3	4	_	
INPUT	203		0	6	0	0		0	0	0	0		0	0	0	0		0	0	0	0		
								_		_													
OUTPUT	203		0	1	3	2		0	0	0	0		0	0	0	0		0	0	0	0		
INSTALLATION SCHEDULE:			1	<u>FY</u> 2	<u>′ 10</u> 3	4	<u>-</u> -	11	<u>FY</u> 2	<u>11</u> 3	4	_	<u>TC</u>		TOTAL								
INPUT			0	0	0	0		0	0	0	0				209								
			_	_				_			_												

Notes/Comments

OUTPUT

Exhibit P-3a, Individual Modification Program Unclassified Classification

TC:

TOTAL

P-1 Shopping List-Item No 81-5 of 5

		BUDGE P-40	T ITEM JU	STIFICATION	ON SHEET	•					DATE: February 2	2006
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM	NOMENCL	ATURE		•	
Other Procurement, Navy	BA 2 - Co	mmuni	cations an	d Electron	ic Equipm	ent	331100, J	EDMICS				
Program Element for Code B Items:												
	Prior Years	ID Code	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Program	
Quantity												
Cost (\$M)	\$65.2		\$6.4	\$6.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	Cont	Cont	

DESCRIPTION: The Joint Engineering Data Management Information and Control System (JEDMICS) is the Joint DoD system for permanently storing, managing and controlling digital engineering drawings and associated technical data. The JEDMICS System replaced labor intensive, inefficient manual and semi-automated engineering drawing repositories with automated central repositories for all engineering and manufacturing information for DOD Weapon Systems. This information is used by the fleet shore establishment and industry in support of spares acquisition, equipment maintenance, and modernization and preparation of technical publications. The JEDMICS system is deployed at 21 interoperable sites that service 600 locations worldwide. JEDMICS currently manages and controls 67,000,000 engineering images and has 41,000 authorized users responsible for over 70,000 user sessions per month. Over 2.5 million digital images are retrieved each month. The effective utilization of JEDMICS by the contractor and Government communities will require secure network access and adequate security for all data stored within the repository.

Funding was used to comply with Congressional direction to continue to acquire a Pacific Fleet Combined Operations Wide Area Network demonstration system consisting of a National Security Administration (NSA) certified product for a secured network solution.

Includes FY 2006 Congressional Add of \$6.8M for PACOM agile coalition environment.

(Exhibit P-5A, page 1 of 4)

AGGREGATED ITEMS P-40a											DATE: February 2	006
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM N	NOMENCL	ATURE			
OTHER PROCUREMENT, NAVY/ BA 2 -												
Communications and Electronic Equipment							331100, JE	EDMICS				
Procurement Items	ID Code	Prior Years	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Program	
D100 DIAMONDNIC SECURE NETWORK	Code	rears	F1 2005	F1 2000	F1 2007	F1 2006	F1 2009	F1 2010	F1 2011	To Complete	Piogram	
Quantity		5,800									5,800	
Funding		20,471	0	0	0	0	0	0	(20,471	
Tallaling		20,471	U	- 0	0			- 0		, .	20,471	
D101 TEST CENTER HW/SW UPGRADE												
Quantity												
Funding		300	0	0	0	0	0	0	(0	300	
-												
JD102 CERTIFICATION/ACCREDITATION												
Quantity												
Funding		7,500	0	0	0	0	0	0	(0	7,500	
ID103 OPEN APPLICATION INTERFACE (OAI) S/W PKG												
Quantity												
Funding		2,452	0	0	0	0	0	0	(0	2,452	
JD104 SYSTEM HW & SW TO RUN OAI												
Quantity												
Funding		2,406	0	0	0	0	0	0	(0	2,406	
ID105 COTS HW & SW FOR TURNKEY WEB SOLUTION												
Quantity												
Funding		2,590	0	0	0	0	0	0	() (2,590	
		2,000	Ŭ	0	0						2,000	
ID106 COMBINED OPS WIDE AREA NETWORK COWAN)COTS HW/SW SOLUT												
Quantity												
Funding		16,646	6,356	6,800	0	0	0	0	(0	29,802	
JD107 TURNKEY WEB SECURE ACCESS UPGRADES												
Quantity												
Funding		3,456	0	0	0	0	0	0	(0	3,456	
ID108 NAVAIR LOGISTICS IT PROTOTYPE												
Quantity		 									+	
Funding		9,363	0	0	0	0	0	0	() (9,363	
Funding		9,303	U	U	U	U	١	0	1	, ,	9,363	
Total P-1 Funding		65,184	6,356	6,800	0	0	0	0	() (78,340	

	WEAPONS SYSTEM COST ANALYSIS	Weapon S	System									DATE:	
	P5											Februa	ary 2006
APPROF	PRIATION/BUDGET ACTIVITY								ID Code	P-1 ITEM NO	MENCLATUR	E	
OTHER	PROCUREMENT, NAVY\ BA 2 - Communications an	d Electron	nic Equipment							331100, JED	MICS		
			Dollars in Thous	ands									
			Prior Years		FY 2005			FY 2006			FY 2007		
Cost Code	Element of Cost	ID Code	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	QTY	Unit Cost	Total Cost	
JD100	DIAMONDNIC SECURE NETWORK		20,471										
JD101	TEST CENTER HW/SW UPGRADE		300										
JD102	CERTIFICATION/ACCREDITATION		7,500										
JD103	OPEN APPLICATION INTERFACE (OAI) S/W PKG		2,452										
JD104	SYSTEM HW & SW TO RUN OAI		2,406										
JD105	COTS HW & SW FOR TURNKEY WEB SOLUTION		2,590										1
	COMBINED OPS WIDE AREA NETWORK (COWAN)COTS HW/SW SOLUTION		16,646			6,356			6,800				
JD107	TURNKEY WEB SECURE ACCESS UPGRADES		3,456										1
JD108	NAVAIR LOGISTICS IT PROTOTYPE		9,363										
			65,184			6,356			6,800				j

BUDGET PROCUREMENT HISTORY AND PI	ANNING	G EXHIBIT (I	P-5A)			Weapon System		A. DATE		
								February		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 IT	EM NOMENCLATURE			SUBHEA	D
OTHER PROCUREMENT, NAVY /	BA 2 - C	ommunication	ons and Electronic Equipment			331100, JEDMICS			42	2JD
				RFP	Contract			Date of	Specs	Date
		Unit Cost		Issue	Method &		Award	First	Available	Revisions
Cost Element/FiscalYear	Qty	(000)	Location of PCO	Date	Type	Contractor and Location	Date	Delivery	Now	Available
JD106 COMBINED OPS WIDE AREA										
NETWORK (COWAN)COTS HW/SW										
SOLUT										
2005		5,281	NSWC, CRANE	05/2005	C-IDIQ	CRYPTEK, INC, STERLING, VA	01/2006	04/2006	Yes	N/A
2006		30	N/A	02/2006	WX	NAWCAD, PATUXENT RIVER MD	03/2006	04/2006	N/A	N/A
2006		310	N/A	02/2006	RX	NSWC DET, CRANE IN	03/2006	04/2006	N/A	N/A
2006		250	N/A	02/2006	WX	SPAWARSYSCEN SAN DIEGO CA	03/2006	04/2006	N/A	N/A
2006		6,210	NSWC, CRANE	02/2006	C-IDIQ	TBD	08/2006	11/2006	Yes	N/A

REMARKS:

(Exhibit P-5A, page 4 of 4)

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHE	ET				DATE			Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUI	PMENT		P-1 ITEM NOM 336800 NAVAL		UNICATIONS			SUBHEAD 52D6	
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY									
COST (in millions)	\$60.6	\$58.4	\$50.4	\$11.3	\$6.0	\$10.8	\$8.4	Continuing	Continuing

The Naval Shore Communications program procures and installs the Defense Message System (DMS) and Base Level Information Infrastructure (BLII) requirements at shore stations.

(1) Defense Message System(D6001): DMS is the DoD-mandated Joint organizational messaging program. DMS implements the high assurance requirements of the Multicommand Requirement of Operational Capability change 2 dated 17 Oct 1997. DMS is an integrated suite of COTS-based applications that provide delivery of organizational messages on the Defense Information System Network (DISN) for strategic (ashore) and tactical (afloat) interoperability. DISA is the DMS lead agency and provides integration, configuration management, and certification of DMS product upgrades as well as backbone operations and help desk services. Implementation and sustainment of operational sites is executed by the individual Services/Agencies. ASD(NII) memo dated 16 May 2005 states that DMS reached Full Operational Capability (FOC) and is in the sustainment phase.

The USN DMS program provides for the planning, procurement, integration and installation necessary to upgrade/refresh all USN and select USMC components at the messaging control centers (aka DMS Service Provider), and remaining transitional messaging systems. Continuing upgrade of DMS components ensures end-to-end, Jointly interoperable messaging capabilities for all Naval activities. DMS HW/SW components include shore and tactical gateway message processing systems, secure access management systems, and the web based DMS Expanded Boundary Solution (DEBS). Specific configurations implemented at individual sites vary to such a degree that aggregate quantities (and unit costs) are not applicable and would be misleading.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

DMS is a DoD-mandated, Joint program, managed by the Defense Information Systems Agency (DISA) and executed by the individual Services/Agencies.

Assistant Secretary of Defense for Networks and Information Integration (ASD NII) memo dated 16 May 2005 dictates that Services and Agencies shall plan and budget for their portion of DMS operation, sustainment, and infrastructure refreshment costs through at least FY2012 -- pending development and transition to DoD Next Generation Messaging Capability.

CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)	DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	336800 NAVAL SHORE COMMUNICATIONS	52D6

- 2) Base Level Information Infrastructure (D6005): The Base Level Information Infrastructure (BLII) program modernizes existing Information Technology (IT) plants and installs up to date IT capability where none currently exists at major OCONUS fleet concentration bases and stations. Primary functional areas of BLII are:
- (a) BLII OCONUS IT Infrastructure: Provides a fully integrated, interoperable, secure IT infrastructure designed to enable rapid and reliable transfer of voice, video and data at prioritized OCONUS bases, stations and homeports. Installs/modernizes inside and outside cable plants including LAN/BAN/WAN electronics, and provides information assurance, asset inventory, and network management capabilities at each site. Improves capabilities and reduces total ownership costs by consolidating network services at efficient Information Technology Support/Outreach Centers (ITSC/ITOCs) in the Far East, European, and Bahrain theaters.

CINCPACFLT (CPF), CINUSNAVEUR (CNE) and COMUSNAVCENT (CUSNC) have declared pier IT infrastructure modernization to be a Force Protection issue, since it enables forward deployed ships to maintain situational awareness and receive operational and intelligence traffic while performing maintenance or training on their RF systems while pier-side. CPF, CNE and CUSNC have emphasized their requirement to expand SIPRnet capability due to anti-terrorist military operations. Installs/modernizes OCONUS pier IT infrastructure to IT-21 standards. Provides IT Infrastructure to operational and logistical support buildings.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

The DoN established the Base Level Information Infrastructure (BLII) program requirement in 1995. The Naval Switch and Cable Modernization Program (NASCAMP), also known as BLII, was originally planned to modernize base switch and cable plants to meet increasing voice, video and data requirements. It was to upgrade analog infrastructures to digital; provide a fiber optic backbone and allow for interoperability within the Defense Information Systems Network (DISN). With the implementation of the Navy Marine Corps Internet (NMCI) project, BLII focuses on other than continental United States (OCONUS) locations and provides all Navy Service members and employees overseas end-to-end, secure, assured access to a full range of voice, video and data services. BLII provides NMCI like services by implementing hardware, software and network management capability and server farms. BLII expands the Government Owned and Government Operated IT infrastructure within the OCONUS BLII Modernization program segment. In addition to improving IT capabilities for OCONUS shore bases, BLII continues to be the initiative that installs and modernizes IT infrastructure at OCONUS piers (Force Protection program segment). The NMCI transition is dependent on resolution of Host Nation Agreement (HNA)/Status of Forces Agreement (SoFA) issues.

3) Telephony Replacement/Modernization(D6006): Replaces obsolete telephone switches and upgrades firmware and software, in accordance with CJCSI 6215.01B, at telephone switch locations that service OCONUS and CONUS forces. Modernizes outdated and overloaded telephone switch cable plants.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

The DoN established the Base Level Information Infrastructure (BLII) program requirement in 1995. The Naval Switch and Cable Modernization Program (NASCAMP), also known as BLII, was originally planned to modernize base switch and cable plants to meet increasing voice, video and data requirements. It was to upgrade analog infrastructures to digital; provide a fiber optic backbone and allow for interoperability within the Defense Information Systems Network (DISN). Telephony Replacement/Modernization continues to replace obsolete NNSOC telephone switches and upgrade Naval base telephone switching firmware and operational software.

Exhibit P-40, Budget Item Justification Unclassified Classification

UNCLASSIFIED CLASSIFICATION

							DATE				
	COST ANALYSIS								Februa	ary 2006	
APPROPR	IATION ACTIVITY		P-1 IT	EM NOMEN	ICLATURE				SUBHEAD)	
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT		336800	NAVAL SHO	ORE COMMUNICATION	S				52D6	
				FY	2005		FY	2006		FY 200	7
COST		ID		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
D6001	Defense Messaging Systems (DMS) ¹	A	Var		6,644	Var		4,166	Var		7,148
20001	Upgrades		Var		4,733	Var		4,166	Var		7,148
	Transitional Messaging Components Technical Refresh		Var		1,911	Var		0	Var		Č
D6005	Base Level Information Infrastructure (BLII) ²	A	Var		17,663	Var		45,112	Var		33,405
	BLII OCONUS IT Infrastructure		Var		17,663	Var		45,112	Var		33,405
D6006	Telephony Replacement/Modernization	А	Var		10,443	Var		5,719	Var		6,053
D6555	Production Support				2,332			2,542			2,400
	Defense Messaging Systems				433			367			511
	Base Level Information Infrastructure (BLII)				1,592			1,744			1,435
	Telephony Replacement/Modernization				307			431			454
D6776	Non-FMP Installation				23,530			885			1,423
	Defense Messaging Systems (DMS)				1,719			707			1,241
	Base Level Information Infrastructure (BLII) 2,3				21,811			178			182
	Total SPAWAR Control				60.643			58,424			E0 40
	TOTAL SPAWAK CONTROL				60,612			58,424			50,429
Remarks:											

Remarks

DD FORM 2446, JUN 86

Exhibit P-5, Budget Item Justification
Unclassified

¹⁾ FY 07-11 includes the procurement of DMS security products to include the procurement of Certification Authority Workstations (CAWs), DII Guards, and associated KOV-11 Fortezza cards which creates, initializes, programs, and distributes the Security Token card and provides certificate management infrastructure.

²⁾ In FY05-11 the procurement lines are combined into the single line BLII OCONUS IT infrastructure. Specific configurations implemented at individual sites within each infrastructure category vary to such a degree that all quantities (and unit costs) previously depicted are not applicable and would be misleading.

³⁾ FY06-11- BLII acquisition strategy is turnkey contracting.

⁴⁾ FY08-11 BLII and Telephony Replacement/Modernization transfers from 3368 Naval Shore Communications to 8161 Command Support Equipment per Issue 61478.

CLASSIFICATION

										A. DATE		
PROC	CUREMENT HISTORY AND PLANNING	G									Februa	ry 2006
B. AP	PROPRIATION/BUDGET ACTIVITY					C. P-1 ITE	M NOMENCL	ATURE	ı		SUBHEAD	
)P,N - B	A2 COMMUNICATIONS & ELECTRONIC EQUIPMEN	IT				336800 NA\	/AL SHORE	COMMUNICA	TIONS		52D6	
COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST Delivery	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
D6001	Defense Messaging Systems	05 06 07	Various Various Various	Various Various Various	SPAWAR SPAWAR SPAWAR	N/A N/A N/A	Dec-04 Dec-05 Dec-06	Feb-05 Feb-06 Feb-07	Var Var Var		Yes Yes Yes	N/A N/A N/A
D6005	Base Level Information Infrastructure (BLII)	05 06 07	Various Various Various	Various Various Various	SPAWAR SPAWAR SPAWAR	N/A N/A N/A	Dec-04 Dec-05 Dec-06	Feb-05 Feb-06 Feb-07	Var Var Var		Yes Yes Yes	N/A N/A N/A
06006	Telephony Replacement/Modernization	05 06 07	Various Various Various	Various Various Various	SPAWAR SPAWAR SPAWAR	N/A N/A N/A	Dec-04 Dec-05 Dec-06	Feb-05 Feb-06 Feb-07	Var Var Var		Yes Yes Yes	N/A N/A N/A

Exhibit P-5a, Procurement History and Planning Unclassified Classification

Defense Messaging Systems (ASHORE)^{1,2} MODIFICATION TITLE:

COST CODE MODELS OF SYSTEMS AFFECTED:

Various

DESCRIPTION/JUSTIFICATION:

State of the art technologies for messaging functions. Costs vary by site size, requirements, and configuration.

Funding provides for procurement and installation of Fleet Tactical Gateways at DMS messaging control centers and DMS organizational

messaging capabilities for user commands, messaging control center upgrades in order to migrate to DMS Enhanced Boundary Solution (DEBS) regional, enterprise, web-based technology at shore tactical sites and technical refresh of transitional messaging components.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																			
	Prior Yrs Qty	\$	I Qty	<u>05</u> \$	Qty	<u>Y 06</u> \$	I Qty	<u>Y 07</u> \$	FY (<u>08</u> \$	I Qty	<u>09</u> \$	I Qty	10 \$	I Qty	<u>′ 11</u> \$	TC Qty \$	Tota Qty	<u>al</u> \$ I
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	Φ	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	Φ	Qty		Qty \$	Qty	<u> </u>
Installation Kits Nonrecurring Equipment Upgrades	4	167.3 96.2		6.6 4.7		4.2 4.2		7.1 7.1		9.3 9.3		5.0 5.0		8.8 8.8		7.1 7.1	con't con't		215.4 142.4
Transitional Messaging Components Equipment Nonrecurring Engineering Change Orders Data Training Equipment		71.1		1.9		0.0		0.0		0.0		0.0		0.0		0.0	con't		73.0
Production Support Other - (DSA) Interm Contractor Support		10.9		0.4		0.4		0.5 0.3		0.5 0.1		0.4 0.3		0.5 0.1		0.6	con't		14.2 0.7
Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP	0.0 0.0	56.2 56.2	Var Var	1.7 1.7	Var	0.7	Var	1.0	Var	1.4	Var	0.4	Var	1.4	Var	0.7	con't		63.5 56.2 1.7
FY 06 EQÜIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP					Var	0.7	Var	1.0	Var	1.4	Var	0.4							0.7 1.0 1.4 0.4
FY 10 EQUIP FY 11 EQUIP FY TC EQUIP													Var	1.4	Var	0.7	con't		1.4 0.7
TOTAL INSTALLATION COST		56.2		1.7		0.7		1.2		1.5		0.6		1.6		0.7	con't		64.2
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		234.4 SPAWAR Sys	s Center Inst	8.8 all		5.2	L	8.9 ADMINISTR	I ATIVE LEAD	11.3 TIME:		6.0	2 Mos	10.8	PRODUCT	8.4 TON LEAD	ΓIME:	2 Mos	293.9
CONTRACT DATES:		FY 2004:	Dec-03		ı	FY 2005:		Dec-04			FY 2006:		Dec-05			FY 2007:	Dec-06		
DELIVERY DATES:		FY 2004:	Feb-04		1	FY 2005:		Feb-05			FY 2006:		Feb-06			FY 2007:	Feb-07		
INSTALLATION SCHEDULE:			PY		_	1	<u>FY 06</u> 2	3	4	_	1	<u>FY 07</u> 2	3	4	_	1	<u>FY 08</u> 2 3	4	
INPUT			Var				Var					Var					Var		
OUTPUT			Var						Var					Var				Var	
INCTALLATION CONFIDENCE	4	2 <u>FY</u>	<u>′09</u> 3	4		4		Y 10			4	2 <u>FY</u>	<u>′ 11</u>	4		TO		TOTAL	
INSTALLATION SCHEDULE:	11		3	4		<u> </u>	2	3	4	_	1		3	4	_	TC		TOTAL	
INPUT		Var					Var					Var						con't	
OUTPUT				Var					Var					Var				con't	

Exhibit P-3a, Individual Modification Program Unclassified Classification

^{1/} Total quantity meets inventory objective. Program continues indefinitely.

^{2/} PY quantities are regions to match the budgets submitted in those years. FY04/05 procurements reflect functional categories to better depict capabilities implemented. FY07-FY11 procurements are all upgrades.

MODIFICATION TITLE: February 2006

COST CODE MODELS OF SYSTEMS AFFECTED: Base Level Information Infrastructure (BLII)

DESCRIPTION/JUSTIFICATION:

Various

BLII modernizes existing IT plans and installs up to date IT capability where none exists at major OCONUS fleet concentration bases and stations. Major functional areas of BLII are BLII OCONUS IT Infrastructure, Telephony Replacement/Modernization, and Force Protection Projects OCONUS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																			
	Prior Yrs Qty	<u>.</u> \$	I Qty	<u>′ 05</u> \$	I Qty	<u>Y 06</u> \$	Qty	<u>Y 07</u>	FY Qty	<u>′ 08</u> \$	I Qty	<u>09</u> \$	FY Qty	<u>′ 10</u> \$	Qty	<u>Y 11</u> \$	TC Qty \$	Total Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring BLII Equipment ¹	Var	213.2	Qiy	φ 17.7	Qty	φ 45.1	Qiy	33.4	Qty	0.0	Qty	0.0	Qiy	0.0	Qty	0.0	0.0		309.4
BLII OCONUS IT Infrastructure	Var	49.1	Var	17.7	Var	45.1	Var	33.4	Var	0.0	Var	0.0	Var	0.0	Var	0.0	0.0		145.3
BLII Wide Area Network (WAN) BLII Regional Network Operating Center (RNOC) BLII Metropolitan Area Network (MAN) BLII Base Area Network (BAN) BLII Local Area Network (LAN)	13 11 3 37 665	10.4 32.1 5.2 74.2 32.7															0.0 0.0 0.0 0.0 0.0		10.4 32.1 5.2 74.2 32.7
BLII Voice	Var	9.5															0.0		9.5
Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support		13.2		1.6		1.7		1.4		0.0		0.0		0.0		0.0	0.0		18.0
Interm Contractor Support Installation of Hardware	Var	98.7	Var	21.8	Var	0.2	Var	0.2	Var	0.0	Var	0.0	Var	0.0	Var	0.0	0.0		120.9
PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP	Var Var	98.7 98.7	Var	21.8	Var	0.2	Var	0.2	Var	0.0	Var	0.0	Var	0.0	Var	0.0			98.7 21.8 0.2 0.2 0.0 0.0 0.0
FY TC EQUIP TOTAL INSTALLATION COST		98.7	Var	21.8	-	0.2		0.2		0.0		0.0		0.0		0.0	0.0		120.9
TOTAL PROCUREMENT COST		325.2		41.1		47.0		35.0		0.0		0.0		0.0		0.0			448.3
METHOD OF IMPLEMENTATION:		Turnkey Con	tract					ADMINISTR	RATIVE LEA	DTIME:			2 Mos		PRODUC	TION LEAD	TIME:	2 Mos	
CONTRACT DATES:		FY 2004:	Dec-03		- 1	FY 2005:		Dec-04			FY 2006:		Dec-05			FY 2007:	Dec-06		
DELIVERY DATES:		FY 2004:	Feb-04		ı	FY 2005:		Feb-05			FY 2006:		Feb-06			FY 2007:	Feb-07		
INSTALLATION SCHEDULE:		PY	_		_	1	2 <u>F</u>	<u>Y 06</u> 3	4	_	1	<u>FY (</u>	<u>07</u> 3	4	_	1	<u>FY 08</u> 2 3	4	
INPUT		Var					Var					Var							
OUTPUT		Var							Var					Var					
INSTALLATION SCHEDULE:	1	2 <u>FY (</u>	<u>09</u> 3	4		1	<u>E</u>	<u>Y 10</u> 3	4		1	2 <u>FY</u> 2	<u>11</u> 3	4		TC		<u>TOTAL</u>	
INPUT										_					_		=	complete	

Notes/Comments

OUTPUT

1) FY04-11: WAN/RNOC/MAN/BAN/LAN consolidated into BLII OCONUS IT Infrastructure to better describe products and capabilities delivered to the customer.

2) FY05-11: BLII Voice was renamed Telephony Replacement/Modernization project and was broken out on a separate cost code.

3) FY08-11 BLII transfers from 3368 Naval Shore Communications to 8161 Command Support Equipment.

Exhibit P-3a, Individual Modification Program Classification

complete

MODIFICATION TITLE: Telephony Replacement/Modernization February 2006
COST CODE D6006

FY 07

COST CODE D6006

MODELS OF SYSTEMS AFFECTED: Various
DESCRIPTION/JUSTIFICATION: Replace

Replaces obsolete telephone switches and upgrades firmware and software, in accordance with CJCSI 6215.01B, at telephone switch locations that service OCONUS and CONUS forces.

FY 08

FY 09

FY 10

FY 11

TC

Total

Modernizes outdated and overloaded telephone switch cable plants.

FY 05

FY 06

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

Prior Yrs

	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring												•							
Telephony Replacement/Modernization (Voice) 1	Var	37.3	Var	10.4	Var 5	5.7	Var 6.1	Var	0.0	Var	0.0	Var	0.0	Var	0.0		0.0		59.6
Equipment Nonrecurring Engineering Change Orders Data Training Equipment																			
Production Support Other - (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP		0.0		0.3	C	0.4	0.5		0.0		0.0		0.0		0.0		0.0		1.2
FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 17 CEQUIP																			
TOTAL INSTALLATION COST		0.0		0.0		0.0	0.0		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	Tu	37.3 urnkey Cor		10.8	3	6.2	6.5 ADMINIST	RATIVE LEA	0.0 ADTIME:		0.0	2 Mos	0.0		0.0 TION LEAD			2 Mos	60.8
CONTRACT DATES:	FY	Y 2004:	Dec-03		FY 2	005:	Dec-04			FY 2006:		Dec-05			FY 2007:		Dec-06		
DELIVERY DATES:	FY	Y 2004:	Feb-04		FY 2	005:	Feb-05			FY 2006:		Feb-06			FY 2007:		Feb-07		
							FY 06				EV 07						FY 08		
INSTALLATION SCHEDULE:		PY	_			1	2 3	4	_	1	<u>FY 07</u> 2	3	4	-	1	2	3	4	
INPUT		Var					Var				Var								
OUTPUT		Var						Var					Var						
		FY	<u>′ 09</u>				FY 10				<u>FY 1</u>	11							
INSTALLATION SCHEDULE:	1	2	3	4		1	2 3	4	_	1	2	3	4	-	TC	-		TOTAL	
INPUT																		complete	

Notes/Comments

2) FY08-11 Telephony Replacement/Modernization transfers from 3368 Naval Shore Communications to 8161 Command Support Equipment.

Exhibit P-3a, Individual Modification Program Unclassified Classification

¹⁾ FY04 and prior: Telephony Replacement/Moderization executed under cost code D6005.

UNCLASSIFIED CLASSIFICATION

																						DAT	Έ							
						PRO	DUC	CTIC	NC:	SCI	HED	UL	E.													Febr	uary	2006	į	
																(DO	D EXI	HIBIT	P-2	1)										
	PRIATION/BUDGET ACTIVITY	UDMENIT							INON																	D NC).			
OP,N - B	A2 COMMUNICATIONS & ELECTRONIC EQUITED IN THE REPORT OF THE PROPERTY OF THE PR	UIPMENT	1 -	1			3368	800	NAVA	AL S	_		MML			NS								52D						
COST	ITEM/MANUFACTURER		S	PROC	ACCEP PRIOR	BAL DUE		CY	05		FISC	AL Y			06	R YE	A D		06					AL Y		R YE	07 :AB		07	
CODE	ITEM/MANUFACTURER		R	QTY	TO	AS OF	0	N	D D	J	F	М	Α	M	J	J		s	0	N	D	J	F	M	A	M	J	J	A	s
CODE			V	QII	1-Oct	1-Oct	c	0	E	A	E	A	P	A	U	U	A U	E	C	0	E	A	E	A	P	A	U	U	Ü	E
		FY	՝		1-001	1-001	T	v	C	N	В	R	R	Ŷ	N	L	G	P	Т	v	c	N	В	R	R	Y	N	L	G	P
																														ī
D6001	Defense Messaging Systems ¹	06		Var		Var			Α		V																			l
		07		Var		Var															Α		V							
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D6005	Base Level Information Infrastructure ¹	06		Var		Var			Α		V												, ,			\vdash	igsqcup	<u> </u>	igspace	
		07	-	Var		Var															Α		V			\vdash	igspace	<u> </u>	igspace	
			-																							\vdash	$\vdash \vdash$	\vdash	$\vdash \vdash$	$\vdash \vdash$
D6006	Telephony Replacement/Modernization ¹	06	-	Var		Var			Α		V															\vdash	H	 	H	
D0000	relephony Replacement/Wodernization	00	-	Var		Var			Α		V										Α		V			\vdash	H	 	H	
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1) V = V	arious arious						ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

		PR	ODUCTION R.	ATE		PROCUREMEN	T LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure

Exhibit P-21 Production Schedule Unclassified

Uliciassille

Classification

BUDGET ITEM JUSTIFICATION	SHEET					DATE			February 2006	
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRO	NIC EQUIPMENT			P-1 ITEM NOMEN		curity Program)			SUBHEAD 52DA	
	PY	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL
QUANTITY										
COST (in millions)		\$91.924	\$97.478	\$101.749	\$113.839	\$132.029	\$156.804	\$159.159	Continuing	Continuing

P.E. #0303140N

PROGRAM COVERAGE: The Information Systems Security Program (ISSP) provides funds for procurement of secure communications equipment for Navy Ships, shore sites, aircraft, Marine Corps, and U.S. Coast Guard to PROTECT information systems from unauthorized access or modification of information, and against the denial of service to authorized users or provision of service to unauthorized users. Information Assurance is a layered protection strategy, using COTS and GOTS hardware and software products that collectively provides an effective Network Security Infrastructure (multiple level security mechanisms and ability to detect and react to intrusions). Information Assurance is critical in protecting our ability to wage Network Centric Warfare. The following ISSP specific efforts will be funded under this program:

SECURE VOICE: The Secure Voice program procures equipment to secure voice communications. Equipment to be procured in FY04-FY07 include various configurations of Secure Terminal Equipment (STE), Secure Voice for the 21st Century Interworking Function (SV-21 IWF) equipment and Secure Voice for the 21st Century Crypto (SV-21 Crypto) equipment. The STE is a ship and shore desktop terminal for classified voice, data, facsimile, and video conferencing to replace the existing legacy Secure Telephone Unit (STU III) units in a phased approach. STE procurement has various configurations that include: Office, Data, Tactical, Narrowband, Condor (wireless), C2 (TACTERM), OMNI and Omega. Mission critical STE procurements will be completed by the end of FY05. The SV-21 IWF and SV-21 Crypto equipment includes various configurations that provide the capability for a direct dial, rack mountable, multi-channel gateway that transfers clear or encrypted digital voice/data to multiplexer radio frequency equipment for SATCOM transmission. Associated ancillary items for Secure Voice products include: handsets, power supplies, PUP sleeves, and upgrade kits, as well as production support and installation.

SECURE DATA: The Secure Data program procures equipment to secure record and data communications. Equipment to be procured in FY04-FY07 include Computer Network Defense (CND) and Cryptographic Communication Security (COMSEC) equipment. The CND program procures equipment to secure Navy network information systems. Procurements within the CND equipment line include: Firewall components, which provides protection for networks from unauthorized users, Virtual Private Networks (VPNs), which provides encrypted "Point" virtual communication networks, IPS' (Intrusion Prevention Prevention Systems), Calcitude Servers (CODs), Administrator Access Control, Network Security tools and Filtering Routers. Procurements within the COMSEC equipment line include various KG family of crypto products to include, Fastlanes (KG-75), Taclanes (KG-175) and Sonets (KG-189), as well as KIV-6, KIV-7s, KIV-19s, Thortons, Programmable Embedded Infosec Product (PEIP), In Line Encryptor (INE) and Hayfield Chips. Associated ancillary, production support and installation is also included.

KEY MANAGEMENT INFRASTRUCTURE (KMI): The Key Management program is a COMSEC key distribution and hardware management system consisting of interoperable Joint Service and Civil Agency key management systems. NSA established the Electronic Key Management System (EKMS) program to meet multiple objectives which includes supplying electronic key in a secure and operationally responsive manner and providing COMSEC managers with an automated system capable of ordering, generation, distribution, storage, security, accounting, and access control. Equipment to be procured in FY04-FY07 include Local Management Devices (LMDs), Local COMSEC Management Systems (LCMS), Tier 2 Central Processing Unit (CPU) replacement upgrades, EKMS Upgrades (hardware and software), Data Transfer Devices (DTDs), Public Key Infrastructure (PKI) security products, Tier 3 Key Server Suites, advanced KP devices, next generation EKMS Phase V products, associated ancillary, production and installation support efforts.

The LMD is a COTS computer that runs LCMS software which controls the Key Processor Equipment (KPE) and provides the COMSEC manager with improved security and enhanced management capabilities. Beginning in FY06, the next generation capability of this device will fall under EKMS Phase V.

The Secure Data System (SDS), stores, manages, transfers and loads key and COMSEC data through automatic loading of End Crypto Units (ECUs). Specifically, the SDS (and its predecessor DTD-2000 and KOV-21) provides the next generation DTD which is based on a PCMCIA card (crypto engine) and COTS notebook/palmtop computer. Beginning in FY06, the next generation capability of this device will fall under EKMS Phase V.

Public Key Infrastructure (PKI) provides digital certificate management to authenticate the identity of users on networks as well as to encrypt electronic information flowing over those networks. Procurements include: Component Authority Devices (CAD), Token readers, Tokens for Classified users, Class 4 tokens, OCSP devices, heavy and light workstations, and Local Registration Authority (LRA) workstations. The Security Token card provides writer to reader security for Local Area Networks (LANs).

BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE 3415 - ISSP (Information System	s Security Program)	SUBHEAD 52DA
JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: The procurement profile has been phased in accordance with valuational Security Agency (NSA) procured key management items.	ilidated requirements for Navy, Marir	e Corps, and Coast Guard implementation	plans and availability of
INSTALLING AGENT: The ISSP equipment will be installed by the In-Service Engineering Activity (ISEA).			

										DATE		
COST A	NALYSIS									February 2006		
APPROPR	IATION ACTIVITY				P-1 ITEM N	OMENCLATUR	RE			SUBHEAD		
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT				3415 - ISSP	(Information Sy	stems Se	ecurity Progra	ım)	52DA		
							TOTAL	COST IN TH	DUSANDS OF			•
			PY		FY 200			FY 200		F	/ 2007	
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
DA013	STE	A	28.050	908	3.33	3.026		0.44	0			0
DA042 DA043	SV-21 (IWF) SV-21 (CRYPTO)	A A	2.201 1.686	297 168	8.55 14.27	2.540 2.397	282 159	9.44 8.30	2.661 1.319	VAR VAR		0.043 0.059
DA043	SV Modernization	A	0.000	100	14.27	0.000	139	0.30	0.000			0.009
2710-1-1	SECURE VOICE:	,	31.937			7.963			3.980			0.102
DA070	CND	Α	4.923	VAR		11.955			8.341	VAR		5.800
DA071	COMSEC	Α	17.935	VAR		56.207	VAR		52.350	VAR		55.068
	SECURE DATA:		22.858			68.162			60.691			60.868
DA003	LMD REPLACEMENT	Α	0.105	120	3.64	0.437			0			0
DA004	EKMS UPGRADES	Α	2.958	VAR		0.409			0			0
DA005	EKMS PHASE V PRODUCTS	Α				0	VAR		11.197			13.681
DA009	SDS	Α	2.221	955	2.09	2			0.000			0.000
DA018	PKI SECURITY PRODUCTS	Α	4.128	VAR		3.885			5.100	VAR		1.866
	KEY MGMT INFRASTRUCTURE (KMI):		9.412			6.723			16.297			15.547
DA555	PRODUCTION SUPPORT	N/A	8.732			4.375			5.091			5.922
	TOTAL PROCUREMENT:		72.939			87.223			86.059			82.439
DA777	INSTALLATION NON FMP	N/A	3.350			0.873			5.367			11.456
DA777	INSTALLATION FMP	N/A	4.474			3.549			3.312			4.677
DA777	DSA & Pre-Shore Design	N/A	0.819			0.279			2.740			3.177
	INSTALLATION:		8.643			4.701			11.419			19.310
	TOTAL PROCUREMENT & INSTALLATION:		81.582			91.924			97.478			101.749

Remarks:

- DA003 The next generation of LMD Replacements will migrate to the new DA005 EKMS Phase V Products cost element beginning in FY06. DA004 The next generation of EKMS Upgrades will migrate to the new DA005 EKMS Phase V Products cost element beginning in FY06.
- DA009 The next generation of SDS will migrate to the new DA005 EKMS Phase V Products cost element beginning in FY06.
- DA013 STE unit costs are based on an average of 6 different configurations and can vary from year to year.
- DA070 FY 05 Congressional add to Computer Network Defense (CND) +\$2.5M for IASM Procurement; FY06 Congressional add to Intelligent Agent Security Model (IASM) +\$2.6M.
- DA042 FY07 is ancillary equipment.
- DA043 FY07 is ancillary equipment.

A. DATE PROCUREMENT HISTORY AND PLANNING February 2006 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD 52DA OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 3415 - ISSP (Information Systems Security Program) CONTRACTOR CONTRACT RFP SPECS DATE DATE **ELEMENT OF COST** COST FΥ AND **METHOD** LOCATION ISSUE AWARD **OF FIRST** QTY UNIT **AVAILABLE** REVISIONS CODE LOCATION & TYPE OF PCO DATE DATE Delivery COST NOW AVAILABLE DA013 STE L3 Comms Corp, NJ SS/FFP DIR NSA YES 05 Mar-05 Sep-06 908 3.33 N/A L3 Comms Corp, NJ SS/FFP SSC SD YES DA042 SV-21 (IWF) 05 Mar-05 Sep-06 297 8.55 N/A DA042 SV-21 (IWF) 06 L3 Comms Corp, NJ SS/FFP SSC SD Mar-06 Sep-07 282 9.44 YES N/A DA043 SV-21 (CRYPTO) L3 Comms Corp, NJ SS/FFP DIR NSA YES 05 14.27 N/A Mar-05 Sep-06 168 DA043 SV-21 (CRYPTO) 06 L3 Comms Corp, NJ SS/FFP DIR NSA Mar-06 Sep-07 159 8.30 YES N/A DA009 SDS 04 GTC (Group Tech Corp), FL SS/FFP NSA/SSC SD Sep-04 Sep-05 1,103 2.01 YES N/A DA009 SDS 05 GTC (Group Tech Corp), FL SS/FFP NSA/SSC SD 2.09 YES N/A Jan-05 Jan-06 955 DA003 LMD REPLACEMENT 05 C/IDIQ NSA/SSC CH YES CSC (Computer Science Corp.), VA Jan-05 Jul-05 120 3.64 N/A

D. REMARKS

DA013 - STE unit costs are based on an average of 6 different configurations and can vary from year to year.

MODIFICATION TITLE: Secure Telephone Equipment (STE) - Afloat February 2006

COST CODE DA013/DA777

NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

STE is a desktop terminal for classified voice, data, facsimile, video and voice conferencing. Various configurations of STE phones exist including: Office, Data, Tactical, Narrowband, Condor (wireless), and C2 (TACTERM). In addition, associated ancillary items procured include: handsets, power supplies, PUP sleeves and FNDBT upgrade kits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

										FIN	ANCIAL F	PLAN: (\$ in n	nillions)								
	Prior Y	rs	FY 0)5	FY 0	6	F۱	′ 07		FY 08		FY 0	9	FY	10	FY	11	Т	С	Tota	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP	6,737 5,075 5,075	28.2 6.9 0.7 5.3 5.3	1,250 1,250	0.2 1.3 1.3	412	0.6		v							·		·		·	6,737 6,737 5,075 1,250 412	7.1 0.7 7.2 5.3 1.3 0.6
FY 10 EQUIP FY 11 EQUIP FY TC EQUIP		0.0		4.0		0.0					0.0		0.0		0.0		0.0		0.0		7.0
TOTAL PROCUPEMENT COST		6.0		1.3		0.6		0.0			0.0		0.0		0.0		0.0		0.0		7.2 43.1
TOTAL PROCUREMENT COST		41.1		1.4		0.6	l	0.0	/		0.0		0.0		0.0	/	0.0		0.0	l	43.1

METHOD OF IMPLEM	ENTATION:								ADMINIST	TRATIVE LE	EADTIME:		;	3 Months			PRODUC	TION LEA	OTIME:	18	Months
	CONTRACT DATES	S: FY 2004:	Jan-05		FY 2005:		Mar-05			FY 2006:					FY 2007:			FY 2008:			FY 2009:
	DELIVERY DATES	S: FY 2004:	Jul-05		FY 2005:		Sep-06			FY 2006:					FY 2007:			FY 2008:			FY 2009:
					FY	05				FY06			F	Y07		1					
INSTALLATION SCHE	DULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4						
		IN	5075	313	313	313	311		206	206											
		OUT	5075	313	313	313	311		206	206											
			ı		FY	'08				FY09			-	Y10			E/	′11			
INSTALLATION SCHE	DULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
	,	IN																			6737
		OUT																			6737

Notes/Comments:

Inventory Objective - FY 05 completes the STE mission critical requirement of 22,500 total units for Navy, Marine Corps and Coast Guard. Production Support - all production support associated with DA013 is reflected on the Afloat P-3a.

RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring

Equipment Equipment Nonrecurring Engineering Change Orders

Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST

Data Training Equipment Production Support (DSA)

MODIFICATION TITLE: Secure Telephone Equipment (STE) - Shore February 2006

COST CODE DA013/DA777 MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION: NONE

STE is a desktop terminal for classified voice, data, facsimile, video and voice conferencing. Various configurations of STE phones exist including: Office, Data, Tactical, Narrowband, Condor (wireless), and C2 (TACTERM). In addition, associated ancillary items procured include: handsets, power supplies, PUP sleeves and FNDBT upgrade kits.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Prior	Vro	FY 0	E		000	EV 07		FY 08		FY 0	0	J	V 10		V 44		TC	T	o.l
Qty	\$	Qty	\$	Qty	06	FY 07 Qty \$	Qty	FY 08 \$		Qty	\$	Qty	Y 10 \$	Qty	FY 11 \$	Qty	\$	Tot Qty	aı \$
uly	Ψ	Gily	Ψ	Q.iy	Ψ	Qty ψ	uiy	Ψ		uty	Ψ	uty	Ψ	Qty	Ψ	Giy	ų.	uty	`
18,853	77.1	908	3.0															19,761	
27 27	2.5 2.5																	27 27	
	2.5 79.6		0.0		0.0	0.			0.0		0.0		0			.0	0. 0.		
	79.0		3.0		0.0		STRATIVE L	EADTIME:	0.0			Months		<u> </u>		CTION LE		18 [Mon
FY 2004:	Jan-05			FY 2005:		Mar-05		FY 2006:				FY 2007:			FY 2008	c		FY 2009:	
FY 2004:	Jul-05			FY 2005:		Sep-06		FY 2006:				FY 2007:			FY 2008	:		FY 2009:	

METHOD OF IMPLEMEN	NTATION:							ADMINIST	TRATIVE LI	EADTIME:		3	Months			PRODUC	TION LEA	OTIME:	18	Months
(CONTRACT DATES: FY	:004: Jan-0	5		FY 2005:		Mar-05			FY 2006:			FY 2007:			FY 2008:			FY 2009:	
	DELIVERY DATES: FY	:004: Jul-0	5		FY 2005:		Sep-06			FY 2006:			FY 2007:			FY 2008:			FY 2009:	
				F	Y05				FY06			F۱	/ 07							
INSTALLATION SCHEDI	ULE:	PY	1	2	3	4	1	2	3	4	1	2	3	4						
	IN	27																		
	OU	27																		
			_		/00				EV/00		1		(40				44			
INSTALLATION SCHEDI	III E (Cont):		1	2	Y08	4	1	2	FY09	4	1	2	/10	4	1	F)	3	4	тс	TOTAL
INSTALLATION SOFILD	OLL (COIII).		-	1	T 3		- '			7	-				-		3	7	10	TOTAL
	IN																			27
	OU ⁻	-																		27

Notes/Comments:

Inventory Objective - 60,000 total for Navy, Marine Corps and Coast Guard; 22,500 mission critical by FY05. Production Support - all production support associated with DA013 is reflected on the Afloat P-3a.

Installations - shore installations are self-install.

RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring

Equipment **Equipment Nonrecurring** Engineering Change Orders

Data Training Equipment Production Support Pre-Design Install Planning Interm Contractor Support Installation of Hardware FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP TOTAL INSTALLATION COST

MODIFICATION TITLE: Secure Voice for the 21st Century Interworking Function (SV-21 IWF) - Shore COST CODE

DA042/DA777

MODELS OF SYSTEMS AFFECTED:

NONE

DESCRIPTION/JUSTIFICATION:

The SV-21 IWF equipment includes various configurations that provide the capability for a direct dial, rack mountable, multi-channel gateway that transfers clear or encrypted digital voice/data to multiplexer radio frequency equipment for SATCOM transmission. Associated ancillary items for Secure Voice products include: handsets, power supplies, PUP sleeves, and upgrade kits, as well as production support and installation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

264 2.2 297 2.5 282 2.7 VAR 0.0 VAR 7 0.1 0.2 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0											AL PLAN: (\$									
264 2.2 297 2.5 282 2.7 VAR 0.0 VAR 7 0.1 0.2 0.1 0.5 0.0 0 264 1.6 297 1.4 843 3 264 1.6 297 1.4 282 0.3	Prior Y	'rs	FY 05	5	FY 06	6	FY 07	7		FY 08	F	Y 09	FY 1	0	FY	11	T	0	Tota	í
0.1	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
0.5 0.0 264 1.6 297 1.4 843 3 264 1.6 297 1.4 282 0.3 282 0.3	264	2.2	297	2.5	282	2.7	VAR	0.0											VAR	7.
264 1.6 297 1.4 282 0.3 282 0.3 0.3 264 1				0.1																0.4
297 1.4 282 0.3 0 0					264	1.6	297	1.4											843	3.
					264	1.6		1.4	282		0.3								297 282	1.6 1.4 0.3 0.0
0.0 0.0 2.1 1.5 0.0 0.0 0.0 0.0 0.0 0.0																				
		0.0		0.0		2.1														3.

TOTAL PROCUREMENT COST		2.2		2.7		4.9		1.6			0.0		0.0		0.0		0.0		0.0		10.9
METHOD OF IMPLEMENTATION:								ADMINIS	TRATIVE LI	EADTIME:			3	Months			PRODUC	TION LEAD	OTIME:	18	Months
CONTRACT DATES	S: FY 2004:	Jan-05		FY 2005:		Mar-05			FY 2006:			Jan-06		FY 2007:		Jan-07		FY 2008:			FY 2009:
DELIVERY DATES	S: FY 2004:	Jul-05		FY 2005:		Sep-06			FY 2006:			Jul-07		FY 2007:		Jul-08		FY 2008:			FY 2009:
	SCHEDULE: PY				'05		1		FY06				FY	′07							
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4		1	2	3	4						
	IN						66	66	66	66		74	74	74	75						
	OUT						66	66	66	66		74	74	74	75						
	·-																				
				FY	′08				FY09				FY	′10			F)	Y11			
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4		1	2	3	4	1	2	3	4	TC	TOTAL
	IN		71	71	70	70															843
	OUT		71	71	70	70															843

Notes/Comments:

Installations - Afloat not applicable. FY07 is ancillary equipment.

Exhibit P-3a, Individual Modification Program

Secure Voice 21 CRYPTO (SV-21 CRYPTO) - Afloat DA043/DA777 NONE MODIFICATION TITLE:

OUT

COST CODE MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

February 2006

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

											NCIAL F	PLAN: (\$ in	millions)								
	Prior			' 05	FY		FY		Otri	FY 08		FY		FY		FY		Ot.		Tota	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	Qty	1.7	Qty 168	2.4	Qty 159	\$ 1.3	Qty VAR	0.1	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty VAR	\$ 5.5
Training Equipment Production Support Pre-Design Install Planning Interm Contractor Support				0.1		0.1 0.2		0.1 0.0			0.1 0.0		0.1 0.0								0.3 0.0
Installation of Hardware								0.2			0.1		0.1							0	0.4
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 11 EQUIP FY 11 EQUIP FY TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		0.0		0.0 2.5		0.2		0.2 0.2 0.4			0.1		0.1 0.1 0.2		0.0		0.0		0.0	0 0 0 0	0.0 0.0 0.0 0.2
METHOD OF IMPLEMENTATION:								ADMINIS	TRATIVE L	EADTIME:			3	Months			PRODUC	TION LEAD	OTIME:	18 N	Months
CONTRACT DATES:	FY 2004:	Jan-05		FY 2005:		Mar-05			FY 2006:			Jan-06		FY 2007:		Jan-07		FY 2008:		F	Y 2009:
DELIVERY DATES:	FY 2004:	Jul-05		FY 2005:		Sep-06			FY 2006:			Jul-07		FY 2007:		Jul-08		FY 2008:		F	Y 2009:
INSTALLATION SCHEDULE:	IN	PY	1	FY 2	3	4	1	2	FY06 3	4		1	FY 2	3	4						
	OUT																				
INSTALLATION SCHEDULE (Cont):	IN		1	FY 2	708	4	1	2	FY09 3	4		1	FY 2	10 3	4	1	F\ 2	711 3	4	TC	TOTAL 0

Notes/Comments:

FY07 is ancillary equipment.

RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring

Equipment

Data Training Equipment Production Support

DSA

Equipment Nonrecurring
Engineering Change Orders

Interm Contractor Support Installation of Hardware

TOTAL INSTALLATION COST TOTAL PROCUREMENT COST

PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP

Secure Voice (SV) Modernization - Afloat DA044/DA777 MODIFICATION TITLE:

COST CODE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

NONE

Secure Voice Modernization is a collection of next generation Secure Voice products which includes various configurations of modernization products such as office, tactical, wireless, remote, and FNBDT Crypto, IWF, and associated

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	/rs	FY	05	F	Y 06	FY	07		FY 08		FY 09	9	FY 1)	FY 11	1	TC		Tot	al
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	
								VAR		1.2	VAR	2.3	VAR	11.0	VAR	13.9	CONT	CONT	CONT	
										0.4		0.3		1.5		1.0	CONT	CONT	CONT	
								28		0.8	36	1.7	28	6.4	146	4.6	CONT	CONT	CONT	
								28		0.8	36	1.7	28	6.4						
															146	4.6	CONT	CONT	CONT	
	0.0		0.0		0.0		0.0			0.0 2.4		1.7 4.4		6.4 18.9		4.6 19.6	CONT	CONT	CONT	_

METHOD OF IMPLEMENTATION:								ADMINIST	RATIVE L	EADTIME:		3 months				PRODUC	TION LEA	DTIME:	18 months	
CONTRACT DATE	ES:	FY 2008:	Jan-08			FY 2009:	Jan-09			FY 2010:	Jan-10			FY 2011:	Jan-11					
DELIVERY DAT	ES:	FY 2008:	Jul-09			FY 2009:	Jul-10			FY 2010:	Jul-11			FY 2011:	Jul-12					
				FY	′05				FY06			FY	/07							
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4						
	IN																			
	OUT																			
					′08				FY09			Ε\	/10			FY	/4.4		1 1	
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
	IN		7	7	7	7	9	9	9	9	7	7	7	7	36	36	37	37	CONT	CONT
	OUT		7	7	7	7	9	9	9	9	7	7	7	7	36	36	37	37	CONT	CONT

Notes/Comments:

Production Support - all production support associated with DA044 is reflected on the Afloat P-3a. Install - All quantities are based on number of platforms the SV Modernization equipment is to be installed. Exhibit P-3a, Individual Modification Program

MODIFICATION TITLE: COST CODE Secure Voice (SV) Modernization - Shore DA044/DA777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

NONE

Secure Voice Modernization is a collection of next generation Secure Voice products which includes various configurations of modernization products such as office, tactical, wireless, remote, and FNBDT Crypto, IWF, and associated ancillary products.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

										FINA	NCIAL P	LAN: (\$ in m	illions)								
	Prior Yrs		FY 05	i	FY	06	FY	07		FY 08		FY 0:)	FY 10	1	FY 1	1	TC	;	Tota	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment		,		Ť		*		•	VAR	Ť	1.0	VAR	1.9	VAR	6.6	VAR	8.9	CONT	CONT	CONT	CONT
Production Support Pre-Design Install Planning Interm Contractor Support											0.1		0.3		1.2		0.2				
Installation of Hardware PRIOR YR EQUIP									1		1.4	2	0.7	1	1.4	11	0.7	CONT	CONT	CONT	CONT
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP									1		1.4	2	0.7	1	1.4	11	0.7				
FY TC EQUIP																11	0.7	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST		0.0	•	0.0		0.0		0.0			0.0	•	0.0		0.0	•	0.0	CONT	CONT	CONT	CONT
TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0			2.5		2.9		9.2		9.8	CONT	CONT	CONT	CONT

METHOD OF IMPLEMENTATION:		•				•		ADMINIST	RATIVE LI	EADTIME:	•	3 month		•		PRODUC	TION LEAD	OTIME:	18 month	
CONTRACT DATE	ES:	FY 2008:	Jan-08			FY 2009:	Jan-09			FY 2010:	Jan-10			FY 2011:	Jan-11					
DELIVERY DATI	ES:	FY 2008:	Jul-09			FY 2009:	Jul-10			FY 2010:	Jul-11			FY 2011:	Jul-12					
				FY	′05				FY06			FY	07							
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4						
	IN																			
	OUT																			
		Ī		FY	/O0				FY09				'10	ī		F)	/4.4		1 1	
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
, ,	IN			1				2				1			3	3	3	2	CONT	CONT
	OUT			1				2				1			3	3	3	2	CONT	CONT

Notes/Comments:

Production Support - all production support associated with DA044 is reflected on the Afloat P-3a.

Exhibit P-3a, Individual Modification Program

MODIFICATION TITLE: COST CODE Computer Network Defense (CND) - Afloat DA070/DA777

NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Computer Network Defense systems include: Firewalls, Virtual Private Networks (VPNs), Intrusion Detection Systems (IDSs), Coalition Data Servers (CODs), Standard Mail Guards (SMGs), Routers and Switches, ancillary devices and other related security tools.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior \	'rs	FY 0	5	FY 0	06	FY 0	7
	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E								
PROCUREMENT:								
Kit Quantity								
Installation Kits								
Installation Kits Nonrecurring								
Equipment	VAR	33.4	VAR	5.0	VAR	4.0	VAR	1
Equipment Nonrecurring								
Engineering Change Orders								
Data								
Training Equipment								
Production Support		8.8		0.6		0.5		1
(DSA)		1.6		0.3		0.2		0
Interm Contractor Support								
Installation of Hardware	VAR	4.3	VAR	2.0	VAR	2.4	VAR	0
PRIOR YR EQUIP	VAR	4.3						
FY 05 EQUIP			VAR	2.0				
FY 06 EQUIP					VAR	2.4		
FY 07 EQUIP							VAR	0
FY 08 EQUIP								
FY 09 EQUIP								
FY 10 EQUIP								
FY 11 EQUIP								
FY TC EQUIP								
TOTAL INSTALLATION COST		5.9		2.2		2.6		1
TOTAL PROCUREMENT COST		48.1		7.8		7.1		3

									FINANCIAL I	PLAN: (\$ in m	nillions)								
Prior Y	'rs	FY 05		FY 06	6	FY 0			FY 08	FY 09		FY 1	0	FY 1	1	TC		Tota	al
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
VAR	33.4	VAR	5.0	VAR	4.0	VAR	1.3	VAR	0.4	VAR	1.8	VAR	1.0	VAR	1.7	CONT	CONT	CONT	CONT
	8.8 1.6		0.6 0.3		0.5 0.2		1.3 0.2		1.4 0.2		1.5 0.3		1.6 0.4		1.6 0.3	CONT	CONT CONT	CONT	CONT
VAR VAR	4.3 4.3	VAR	2.0	VAR	2.4	VAR	0.9	VAR	1.3	VAR	0.4	VAR	1.8	VAR	1.0	CONT	CONT	CONT	CONT
		VAR	2.0	VAR	2.4	VAR	0.9	VAR	1.3	VAR	0.4	VAR	1.8	VAR	1.0	CONT	CONT	CONT	CONT
	5.9		2.2		2.6		1.1		1.5		0.7		2.1		1.4	CONT	CONT	CONT	CONT
	48.1		7.8		7.1		3.7		3.4		4.0		4.7		4.7	CONT	CONT	CONT	CONT

METHOD OF IMPLEM	MENTATION:								ADMINIST	RATIVE L	EADTIME:		Various				PRODUC	TION LEA	DTIME:		Various
	CONTRACT DATE	S:	FY 2004:					FY 2005:					FY 2006:					FY 2007:			
	DELIVERY DATE	S:	FY 2004:					FY 2005:					FY 2006:					FY 2007:			
					F١	′05				FY06			FY	07		1					
INSTALLATION SCH	IN			1	2	3	4	1	2	3	4	1	2	3	4						
		OUT																			
			i		F۱	′08				FY09		1	ΕV	10		ı	FY	′11		1	1
INSTALLATION SCH	LLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
	IN																				
	IN OUT																				

Notes/Comments:

Production Support - all production support associated with DA070 is reflected on the Afloat P-3a.

Exhibit P-3a, Individual Modification Program

MODIFICATION TITLE: COST CODE Computer Network Defense (CND) - Shore DA070/DA777

NONE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

Computer Network Defense systems include: Firewalls, Virtual Private Networks (VPNs), Intrusion Detection Systems (IDSs), Coalition Data Servers (CODs), Standard Mail Guards (SMGs), Routers and Switches, ancillary devices

and other related security tools.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

										FINAN	ICIAL F	PLAN: (\$ in milli	ons)								
	Prior Y	rs	FY 05	5	FY 0	6	FY 0	7		FY 08		FY 09		FY 10		FY 1	1	TC		Tot	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	VAR	35.2	VAR	7.0	VAR	4.4	VAR	4.5	VAR		6.0	VAR	7.5	VAR	7.9	VAR	7.5	CONT	CONT	CONT	CONT
Production Support Pre-Design Install Planning								0.6			0.5		0.5		0.5		0.5				
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP	VAR VAR	25.6 25.6	VAR VAR	0.9	VAR	2.3	VAR	5.1	VAR		5.4	VAR	5.0	VAR	5.4	VAR	5.0	CONT	CONT	CONT	CONT
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TO EQUIP					VAR	2.3	VAR	5.1	VAR		5.4	VAR	5.0	VAR	5.4	VAR	5.0	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST	-	25.6		0.9		2.3		5.7			5.9		5.5		5.9		5.5	CONT	CONT	CONT	CONT
TOTAL PROCUREMENT COST	-	60.8		7.9		6.7		10.2			11.9		13.0		13.8		13.0	CONT	CONT	CONT	CONT

METHOD OF IMPLEMENTATION:								ADMINIST	TRATIVE L	EADTIME:		Various				PRODUC	TION LEA	DTIME:		Various
CONTRACT DATE	S: FY 2005:					FY 2006:					FY 2007:		FY 2008:			FY 2009:				
DELIVERY DATE	S: FY 2005:					FY 2006:					FY 2007:		FY 2008:			FY 2009:				
	FY05 PY 1 2 3								FY06			F۱	′ 07		1					
INSTALLATION SCHEDULE:	CHEDULE: PY 1 2				3	4	1	2	3	4	1	2	3	4						
	IN																			
	OUT																			
					′08				FY09				′10		1	FY	/4.4			
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
	IN																			
	OUT																			

Notes/Comments:

Production Support - all production support associated with DA070 is reflected on the Afloat P-3a. Increase in FY05 for IASM Procurement.

Exhibit P-3a, Individual Modification Program

RDT&E
PROCUREMENT:
Kit Quantity
Installation Kits
Installation Kits Nonrecurring

Equipment
Equipment Nonrecurring
Engineering Change Orders

Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY TC EQUIP

Data Training Equipment Production Support (DSA)

MODIFICATION TITLE: COMSEC - Afloat February 2006

COST CODE DA071/DA777

MODELS OF SYSTEMS AFFECTED: NONE
DESCRIPTION/JUSTIFICATION:

Procure

Procurements within the CRYPTO/COMSEC legacy and modernization equipment lines include: KG family of cryptos, KG-40A, KG-3X, Fastlanes (KG-75), Taclanes (KG-175), Sonets (KG-189), KIV-6, KIV-7s, KIV-19s, Thortons, Programmable Embedded Infosec Product (PEIP), HAIPE (INEs), MCS (K0-9), and Hayfield Chips.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Prior Y	/rs	FY 0	5	FY 0	6	FY 07	7		FY 08	FY (09	FY 1	0	FY 1	1	TC		Tota	al
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
	Ŧ		,		•		Ţ		·		,		•		Ť		*		
VAR	9.0	VAR	28.1	VAR	26.1	VAR	28.6	VAR	26.2	VAR	30.4	VAR	25.9	VAR	32.6	CONT	CONT	CONT	CON
	6.5		3		3.3 1.8		3.5 0.6		3.3 1.5		3.8 1.5		3.5 0.8		4.1 1.8	CONT	CONT	CONT	CON
						VAR	3.0	VAR	3.6	VAR	5.0	VAR	8.1	VAR	6.5	CONT	CONT	CONT	CON
						VAR	3.0	VAR	3.6	VAR	5.0								
										Vitt	0.0	VAR	8.1	VAR	6.5				
																CONT	CONT	CONT	CON
	0.0 15.5		0.0 31.1		1.8 31.2		3.6 35.7		5.1 34.6		6.5 40.8		8.9 38.3		8.2 44.9	CONT	CONT	CONT	CON

TOTAL INSTALLATION COST TOTAL PROCUREMENT COST 44.9 CONT CONT CONT METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various CONTRACT DATES: FY 2005: FY 2006: FY 2007: FY 2008: FY 2009: DELIVERY DATES: FY 2005: FY 2006: FY 2007: FY 2008: FY 2009: FY05 FY06 INSTALLATION SCHEDULE: PΥ IN OUT FY09 INSTALLATION SCHEDULE (Cont): TC TOTAL IN OUT

Notes/Comments:

Production Support - all production support associated with DA071 is reflected on the Afloat P-3a.

RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring

Equipment **Equipment Nonrecurring** Engineering Change Orders

Data Training Equipment Production Support Pre-Design Install Planning Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP

MODIFICATION TITLE: COMSEC -Shore February 2006

DA071/DA777 COST CODE MODELS OF SYSTEMS AFFECTED:

NONE

DESCRIPTION/JUSTIFICATION:

Procurements within the CRYPTO/COMSEC legacy and modernization equipment lines include: KG family of cryptos, KG-40A, KG-3X, Fastlanes (KG-75), Taclanes (KG-175), Sonets (KG-189), KIV-6, KIV-7s, KIV-19s, Thortons, Programmable Embedded Infosec Product (PEIP), HAIPE (INEs), MCS (K0-9), and Hayfield Chips.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

									FINANCIAL I	PLAN: (\$ in n	nillions)								
Prior Y	'rs	FY 0	5	FY 0	6	FY 0	7		FY 08	FY 0	9	FY 10		FY 11		TC		Tota	al
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty 5	\$	Qty	\$	Qty	\$	Qty	\$
VAR	146.4	VAR	28.1	VAR	26.2	VAR	26.4	VAR	26.2	VAR	30.4	VAR	30.4	VAR	32.6	CONT	CONT	CONT	CON
							1.6		1.6		1.38		1.7						
						VAR	3.9	VAR	10.2	VAR	10.0	VAR	14.0	VAR	7.9	CONT	CONT	CONT	CONT
						VAR	3.9	VAR	10.2	VAR	10.0	VAR	14.0						
														VAR	7.9	CONT	CONT	CONT	CONT
	0.0		0.0		0.0		5.5		11.8		11.4		15.7		7.9	CONT	CONT	CONT	CON
	146.4		28.1		26.2		31.9		38.1		41.8		46		40.6	CONT	CONT	CONT	CONT

TOTAL INSTALLATION COST TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Various Various CONTRACT DATES: FY 2005: FY 2006: FY 2007: FY 2008: FY 2009: DELIVERY DATES: FY 2005: FY 2006: FY 2007: FY 2008: FY 2009: FY05 FY06 INSTALLATION SCHEDULE: PΥ IN OUT FY09 INSTALLATION SCHEDULE (Cont): TC TOTAL IN OUT

Notes/Comments:

Production Support - all production support associated with DA071 is reflected on the Afloat P-3a.

RDT&E
PROCUREMENT:
Kit Quantity
Installation Kits
Installation Kits Nonrecurring

Interm Contractor Support
Installation of Hardware
PRIOR YR EQUIP
FY 04 EQUIP
FY 05 EQUIP
FY 06 EQUIP
FY 07 EQUIP
FY 08 EQUIP
FY 08 EQUIP
FY 09 EQUIP
FY 10 EQUIP
FY 10 EQUIP
FY 10 EQUIP
FY 11 EQUIP
FY TC EQUIP
FY TC EQUIP

Equipment
Equipment Nonrecurring
Engineering Change Orders

Data
Training Equipment
Production Support
(DSA)

MODIFICATION TITLE: LMD Replacement - Afloat February 2006

COST CODE DA003/DA777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

Tier 2 LMD replacements provide upgraded COTS (Commercial Off The Shelf) computer processing units (CPUs) which interface between the Key Processor (I.e. KOK-22) and other EKMS elements to provide enhanced management capabilities to order and account for all forms of COMSEC material. Capabilities include storing in key encrypted form, performing key generation and automatic key distribution.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

WILLIAM WILL	OTOINE																			
									FINAN	ICIAL P	PLAN: (\$ in m	illions)								
Prior \	/rs	FY 05	,	FY	′ 06	FY 07			FY 08		FY 09)	FY 10		FY '	11	T	С	Tota	al
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
80	0.5	25	0.1																105	0.64
	0.0		0.0																	
		30	0.3		0.0														30	0.3
		30	0.3		0.0														30 0	0.3 0.0
	0.0		0.3		0.0		0.0			0.0		0.0		0.0		0.0		0.0		0.3
	0.5		0.5		0.0		0.0	l		0.0		0.0		0.0	ĺ	0.0		0.0		0.3 0.94

TOTAL PROCUREMENT COST		0.5		0.5		0.0		0.0			0.0		0.0		0.0		0.0		0.0		0.94
METHOD OF IMPLEMENTATION:					•				•	EADTIME:			3	Months			PRODUC	TION LEA		6	Months
CONTRACT DATE	S: FY 2004:	Jul-04		FY 2005:		Jan-05			FY 2006:						FY 2007:			FY 2008:			FY 2009:
DELIVERY DATE	S: FY 2004:	Jan-05		FY 2005:		Jul-05			FY 2006:						FY 2007:			FY 2008:			FY 2009:
INSTALLATION SCHEDULE:		PY	1	F` 2	Y05 3	4	1	2	FY06 3		4	1	FY 2	′07 3	4						
	IN		8	8	7	7															
	OUT		8	8	7	7															
INSTALLATION SCHEDULE (Cont):			1	F` 2	Y08 3	4	1	2	FY09 3		4	1	FY 2	′10 3	4	1	FY 2	′11 3	4	тс	TOTAL
	IN																				30
	OUT																				30

Notes/Comments:

Production Support - most years cost less than \$50K, hence the rounding to 0.0 million.

Production Support - all production support associated with DA003 is reflected on the Afloat P-3a.

MODIFICATION TITLE: COST CODE LMD Replacement - Shore DA003/DA777 February 2006

MODELS OF SYSTEMS AFFECTED:

NONE

DESCRIPTION/JUSTIFICATION:

Tier 2 LMD replacements provide upgraded COTS (Commercial Off The Shelf) computer processing units (CPUs) which interface between the Key Processor (I.e. KOK-22) and other EKMS elements to provide enhanced management capabilities to order and account for all forms of COMSEC material. Capabilities include storing in key encrypted form, performing key generation and automatic key distribution.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

						PLAN: (\$ in millions)				
	Prior Yrs	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TC	Total
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
RDT&E PPROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Requipment Equipment Production Support Data Training Equipment Production Support DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 11 EQUIP FY 12 EQUIP FY 11 EQUIP FY 12 EQUIP	245 1.3	95 0.3								340 1.1
TOTAL INSTALLATION COST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
TOTAL PROCUREMENT COST	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1

METHOD OF IMPLEMENTATION:								ADMINIS ⁻	TRATIVE L	EADTIME:		3	Months			PRODUC	TION LEA	DTIME:	6	Months
CONTRACT DATE	ES: FY 2004:		Jul-04		FY 2005:		Jan-05			FY 2006:				FY 2007:			FY 2008:			FY 2009:
DELIVERY DATI	ES: FY 2004:		Jan-05		FY 2005:		Jul-05			FY 2006:				FY 2007:			FY 2008:			FY 2009:
				FY	'05				FY06		1	FY	′07		1					
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4						
	IN																			
	OUT																			
					100				F1/00				′′′				,,,			
INICTALL ATION COLIEDING (Cont).				FY	′08				FY09	4		FY	′10			FY	′11			TOTAL
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1		3	4	1		3	4	TC	TOTAL
	IN																			
	OUT																			

Notes/Comments:

Production Support - all production support associated with DA003 is reflected on the Afloat P-3a. Installations - self installs applicable to shore activities.

RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring

Equipment Equipment Nonrecurring Engineering Change Orders

Data Training Equipment Production Support Pre-Design Install Planning Interm Contractor Support Installation of Hardware FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST

MODIFICATION TITLE: DA0004/DA777 COST CODE NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

EKMS Upgrades

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

						PLAN: (\$ in millions)				
Prior	r Yrs	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TC	Total
Qty	\$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
	3.0	0.4								0 3
	0.0	0.0								(
										0
										0 (0 0 (0 0 (0
	0.0									
	3.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0)

METHOD OF IMPLEM	MENTATION:								ADMINIS'	TRATIVE L	EADTIME:		3	Months			PRODUC	TION LEA	DTIME:	18	Months	
	CONTRACT DATES: FY	2004:	Jan-05		FY 2005:		Mar-05			FY 2006:		Jan-06		FY 2007:		Jan-07		FY 2008:			FY 2009:	
	DELIVERY DATES: FY	2004:	Jul-05		FY 2005:		Sep-06			FY 2006:		Jul-07		FY 2007:		Jul-08		FY 2008:			FY 2009:	
		PY 1 2 3							FY06			F١	707		1							
INSTALLATION SCHE	TION SCHEDULE: PY 1 2			2	3	4	1	2	3	4	1	2	3	4								
	IN																					
	OU	т																				
			г			′08				FY09		1		/10				/11				
INSTALLATION SCHE	EDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL	
	IN																				0	
	OU	Т																			0	

Notes/Comments:

MODIFICATION TITLE: COST CODE EKMS Phase V Products - Afloat

DA005/DA777

MODELS OF SYSTEMS AFFECTED: NONE

DESCRIPTION/JUSTIFICATION:

EKMS Phase V is a collection of next generation EKMS products to upgrade and replace the capabilities of the Local Management Devices (LMDs), Secure Data Systems (SDS'), Simple Key Loaders (SKLs), Data Management Devices (DMDs), Server Suites, HAIPE devices, and associated ancillary products such as printers, tape drives and fill cables.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

								FINAN	ICIAL F	LAN: (\$ in million	ns)								
	Prior Yrs	FY 05	FY 06		FY 07	7		FY 08		FY 09		FY 10		FY 11		TC		Tota	al
	Qty \$	Qty \$	Qty	\$	Qty	\$	Qty	\$		Qty \$		Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment			VAR	7.2	VAR	5.5	VAR		5.9	VAR	7.2	VAR	7.7	VAR	8.4	CONT	CONT	CONT	CONT
Production Support (DSA) Interm Contractor Support				0.7		0.9			0.7		1.1		1.2		1.3	CONT	CONT	CONT	CONT
Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP				0.0	VAR	0.4	VAR		8.0	VAR	1.0	VAR	0.9	VAR	1.1	CONT	CONT	CONT	CONT
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP					VAR	0.4	VAR		0.8	VAR	1.0	VAR	0.9	VAR	1.1	2017		0017	2017
FY 11 EQUIP FY TC EQUIP																CONT CONT	CONT CONT	CONT CONT	CONT CONT
TOTAL INSTALLATION COST	0.0			0.0		0.4			0.8		1.0		0.9		1.1	CONT	CONT	CONT	CONT
TOTAL PROCUREMENT COST	0.0	0.0		7.9		6.7			7.4		9.3		9.9		10.9	CONT	CONT	CONT	CONT

METHOD OF IMPLEMENTATION:								ADMINIST	TRATIVE L	EADTIME:		Various				PRODUCT	TION LEAF	DTIME:	Various	
CONTRACT DATE	S: FY 2005:					FY 2006:					FY 2007:			FY 2008:			FY 2009:			
DELIVERY DATE	S: FY 2005:					FY 2006:					FY 2007:			FY 2008:			FY 2009:			
INSTALLATION SCHEDULE:		PY	1	FY 2	Y05 3	4	1	2	FY06 3	4	1	F\ 2	707	4						
	IN																			
	OUT			<u> </u>					<u> </u>				<u> </u>							
INSTALLATION SCHEDULE (Cont):		ļ	4	FY	Y08	4	4		FY09		4	F\	/10			FY	/11 2		TC	TOTAL
INSTALLATION SCHEDULE (COIII).			- '			4				4	'	Τ	3	-4	'_				10	TOTAL
	IN						 	!	<u> </u>							ļ			<u> </u>	
	OUT		1				i '			ĺ								i		

Notes/Comments:

Production Support - all production support associated with DA005 is reflected on the Afloat P-3a.

Exhibit P-3a, Individual Modification Program

MODIFICATION TITLE: COST CODE EKMS Phase V Products - Shore DA005/DA777

NONE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

EKMS Phase V is a collection of next generation EKMS products to upgrade and replace the capabilities of the Local Management Devices (LMDs), Secure Data Systems (SDS'), Simple Key Loaders (SKLs), Data Management Devices (DMDs), Server Suites, HAIPE devices, and associated ancillary products such as printers, tape drives and fill cables.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

						PLAN: (\$ in millions)				
	Prior Yrs	FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	TC	Total
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
ROT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment			VAR 4.0	VAR 8.2	VAR 5.9) VAR 10.8	VAR 12	VAR 13	CONT CONT	CONT CO
Production Support Pre-Design Install Planning				0.1	0.1	0.1	0.1	0		
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP			VAR 1.5	VAR 0.7	VAR 0.6	6 VAR 0.6	VAR 0.7	VAR 0.8	CONT CONT	CONT COI
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP			VAR 1.5	VAR 0.7	VAR 0.6	0.6 VAR 0.6	VAR 0.7			
FY 10 EQUIP FY 11 EQUIP FY TC EQUIP								VAR 0.8	CONT CONT CONT CONT	CONT CO
TOTAL INSTALLATION COST	0.0	0.0	1.5					0.8	CONT CONT	CONT CO
TOTAL PROCUREMENT COST	0.0	0.0	5.5	9.0	6.6	11.6	12.5	13.5	CONT CONT	CONT CC

METHOD OF IMPLEMENTATION:								ADMINIST	TRATIVE L	EADTIME:		Various				PRODUC	TION LEA	DTIME:	Various	
CONTRACT DAT	ES: FY 2005:					FY 2006:					FY 2007:			FY 2008:			FY 2009:			
DELIVERY DAT	ES: FY 2005:					FY 2006:					FY 2007:			FY 2008:			FY 2009:			
				FY05					FY06			F.	′07		1					
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4						
	IN																			
	OUT																			
				FY	/08				FY09			F'	/10			F۱	/11			
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
	IN																			
	OUT																			

Notes/Comments:

Production Support - all production support associated with DA005 is reflected on the Afloat P-3a.

Exhibit P-3a, Individual Modification Program

MODIFICATION TITLE: SDS Shore COST CODE DA009/DA777 MODELS OF SYSTEMS AFFECTED: NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

February 2006

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

		FINANCIAL PLAN: (\$ in millions)																			
	Prior Yrs Qty \$		FY 05 Qty \$		FY 06 Qty \$		FY 07 Qty \$		FY 08 Qty \$			FY Qty	09	FY Otv	10 \$	FY 11 Qty \$		TC Qty \$		Tot Qty	tal \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	uty	2.2	955		uty	\$	<u> </u>	\$	Qty	Φ		Qty	*	Qty	\$	uty	\$	uty	\$	Qty 955	4.2
Training Equipment Production Support Pre-Design Install Planning Interm Contractor Support Installation of Hardware																				0	0.0 0.0 0.0
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY TC EQUIP																				0 0 0	0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		0.0 2.2		0.0 2.0		0.0		0.0			0.0		0.0		0.0		0.0		0.0		0.0 4.2
•			-	2.0		0.0					0.0				0.0						
METHOD OF IMPLEMENTATION:							ADMINISTRATIVE LE			EADTIME:	DTIME:		3 Months			PRODU		CTION LEADTIME:		18 Months	
CONTRACT DATES: FY 2004:		Jan-05	FY 2005:			Mar-05		FY 2006:					Jan-06 FY 2007:			Jan-07		FY 2008:		FY 2009:	
DELIVERY DATES: FY 2004:		Jul-05	FY 2005:			Sep-06				FY 2006:		Jul-07 FY		FY 2007:	FY 2007:		Jul-08 FY		FY 2008:		FY 2009:
INSTALLATION SCHEDULE:		PY	1	FY 2	705 3	4	1	2	FY06 3	4		1	FY 2	07 3	4]					
	IN					·	·	_							·						
	OUT																				
	FY08					FY09						FY	'10		FY11						
INSTALLATION SCHEDULE (Cont):		}	1	2	3	4	1	2	3	4		1	2	3	4	1	2	3	4	TC	TOTAL
	IN																				0
	OUT	Į																			0

Notes/Comments:

MODIFICATION TITLE: SDS Afloat COST CODE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

DA0009/DA777 NONE

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

		FINANCIAL PLAN: (\$ IN MILLIONS)																				
	Prior	Yrs	FY	05	FY 06		FY 07		FY 08		F	Y 09	FY	10	FY 11		TC		Total			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	u.y	•	Δ.,	2.0	<u>u,</u>	•	<u>u,</u>	Ţ.		v		v		V	u.y	,	u.y		0	2.0		
Production Support Pre-Design Install Planning Interm Contractor Support		0.0		0.1																0.1 0.0		
Installation of Hardware																			0	0.0		
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP FY 11 EQUIP FY 15 EQUIP																			0 0 0 0	0.0 0.0 0.0 0.0		
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0	.0	0.0)	0.0		0.0		0.0		0.0		
TOTAL PROCUREMENT COST		0.4		2.1		0.0		0.0		0	.0	0.0)	0.0		0.0		0.0		2.1		
METHOD OF IMPLEMENTATION:								ADMINIST	RATIVE L	EADTIME:		3	Months			PRODUCT	TION LEAD	TIME:	18 M	onths		
CONTRACT DATES:	FY 2004:	Jan-05		FY 2005:		Mar-05			FY 2006:		Jan-0	6	FY 2007:		Jan-07		FY 2008:		F	Y 2009:		
DELIVERY DATES:	FY 2004:	Jul-05		FY 2005:		Sep-06			FY 2006:		Jul-0	7	FY 2007:		Jul-08		FY 2008:		F	Y 2009:		
INSTALLATION SCHEDULE:		PY	1	FY 2	05 3	4	1	2	FY06 3	4	1	F 2	Y07 3	4								
	IN																					
	İ												İ									
	OUT																					

FINANCIAL PLAN: (\$ in millions)

FY10

Notes/Comments:

INSTALLATION SCHEDULE (Cont):

IN OUT FY09

TOTAL

UNCLASSIFIED

MODIFICATION TITLE: COST CODE PKI Security Products - Afloat DA018/DA777

MODELS OF SYSTEMS AFFECTED: NONE

DESCRIPTION/JUSTIFICATION:

Public Key Infrastructure (PKI) provides management of the digital certificates used to authenticate the identity of users on networks as well as to encrypt electronic information flowing over those networks. Procurements include: Component Authority Devices (CAD), Token readers, Tokens for Classified users, Class 4 tokens, OCSP devices, heavy and light workstations, and Local Registration Authority (LRA) workstations. The Security Token card provides writer to reader security for Local Area Networks (LANs).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

										FINΔNC	CIAL P	PLAN: (\$ in mi	llions)								
	Prior Y	'rs	FY 0	5	FY 0	6	FY 0	7		FY 08)// (E I	FY 09		FY 10)	FY 1	1	TC		Tota	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring										·											
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	VAR	13.6	VAR	1.6	VAR	2.0	VAR	0.7	VAR		2.8	VAR	1.4	VAR	1.4	VAR	0.9	CONT	CONT	CONT	CONT
Production Support (DSA) Interm Contractor Support		4.8 0.3		0.2 0.0		0.3 0.0		0.1 0.0			0.4 0.0		0.2 0.0		0.2 0.0		0.1 0.0	CONT	CONT	CONT	CONT
Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP	VAR VAR	1.0 1.0	VAR	0.0	VAR	0.3	VAR	0.2	VAR		0.2	VAR	0.3	VAR	0.2	VAR	0.1	CONT	CONT	CONT	CONT
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP					VAR	0.3	VAR	0.2	VAR		0.2	VAR	0.3	VAR	0.2						
FY 11 EQUIP FY TC EQUIP																VAR	0.1	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		1.3 19.7		0.0 1.8		0.3 2.7		0.2 1.0			0.2 3.3		0.3 1.8		0.2 1.7		0.1 1.1	CONT	CONT	CONT	CONT

METHOD OF IMPLEMENTATION:								ADMINIST	TRATIVE L	EADTIME:		Various				PRODUC	TION LEA	DTIME:	Various	
CONTRACT DATE	S: FY 2005:					FY 2006:					FY 2007:				FY 2008:			FY 2009:		
DELIVERY DATE	S: FY 2005:					FY 2006:					FY 2007:				FY 2008:			FY 2009:		
	Г			FY	′05				FY06			FY	′07		1					
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4						
	IN																			
	OUT																			
					100				F1/00				"				,,,			
INSTALLATION SCHEDULE (Cont):			1	2	708	4	1	2	FY09	4	1	2	′10 3	4	1	F)	3	4	TC	TOTAL
inomizzanon conzecze (com).				<u> </u>	_ <u> </u>				_ <u> </u>	•	<u> </u>	<u> </u>	_ <u> </u>				_ <u> </u>		10	TOTAL
	IN																			
	OUT																			

Notes/Comments:

Production Support - all production support associated with DA018 is reflected on the Afloat P-3a.

Exhibit P-3a, Individual Modification Program

February 2006

UNCLASSIFIED

MODIFICATION TITLE: COST CODE PKI Security Products - Shore DA018/DA777

NONE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

Public Key Infrastructure (PKI) provides management of the digital certificates used to authenticate the identity of users on networks as well as to encrypt electronic information flowing over those networks. Procurements include: Component Authority Devices (CAD), Token readers, Tokens for Classified users, Class 4 tokens, OCSP devices, heavy and light workstations, and Local Registration Authority (LRA) workstations. The Security Token card provides writer to reader security for Local Area Networks (LANs).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Dele e Vee		F1/ 0		5/0		57.0				ICIAL F	PLAN: (\$ in mil	lions)	F)/ 10		57.4					
	Prior Yrs Qtv	•	FY 0	5	FY 0 Qtv	Ď.	FY 0	<i>'</i>	Qtv	FY 08		FY 09 Qtv	e.	FY 10 Qtv	, ,	FY 1 st Qtv	1	TC Qtv	•	Tota Qtv	ılı D
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	VAR	20.4	Qty VAR	2.3		3.1	VAR	1.1	VAR	\$	2.8	VAR	1.4	VAR	1.4	VAR	0.9	CONT	CONT	CONT	CONT
Production Support Pre-Design Install Planning Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 05 EQUIP FY 05 EQUIP	VAR	1.4 1.4					VAR	0.1 0.3	VAR		0.2	VAR	0.1 0.8	VAR	0.08	VAR	0.1	CONT	CONT	CONT	CONT
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 11 EQUIP							VAR	0.3	VAR		0.3	VAR	0.8	VAR	0.3	VAR	0.2	CONT	CONT	CONT	CONT
FY TC EQUIP																		CONT	CONT	CONT	CONT
TOTAL PROCUPEMENT COST		1.4		0.0		0.0		0.4			0.5		0.9 2.3		0.3		0.3	CONT	CONT	CONT	CONT
TOTAL PROCUREMENT COST	L	21.8		2.3	ļ	3.1		1.5			3.2		2.3		1.7		1.2	CONT	CONT	CONT	CONT

METHOD OF IMPLEMENTATION:								ADMINIST	TRATIVE L	EADTIME:		Various				PRODUCT	TION LEAF	DTIME:	Various	
CONTRACT DATE	S: FY 2005:					FY 2006:					FY 2007			FY 2008:			FY 2009:			
DELIVERY DATE	S: FY 2005:					FY 2006:					FY 2007			FY 2008:			FY 2009:			
INSTALLATION SCHEDULE:		PY	1	FY 2	705 3	4	1	2	FY06 3	4	1	F` 2	707 3	4]					
	IN																			
	OUT			<u> </u>]					
INSTALLATION SCHEDULE (Cont):			1	FY 2	708	4	1	2	FY09	4	1	F 2	710	4	1	FY 2	′11		TC	TOTAL
INOTALE WIGHT CONLEGGE (COM).	IN									-									10	TOTAL
	OUT																			

Notes/Comments:

Production Support - all production support associated with DA018 is reflected on the Afloat P-3a.

Exhibit P-3a, Individual Modification Program

February 2006

PROD	UCTION SCHEDU	JLE																																DAT Febr	E uary 2	2006						
	PRIATION/BUDGET ACT A2 COMMUNICATIONS		TPO	NIC EO	IIDMEN	т													ICLATI		me So	curity P	rogram	,)												SUB 52D/	HEAD	NO.				_
7F , N - L	AZ COMMONICATIONS	& LLLO	S		ACCEP						FISCA	L YE	AR		05	3413	- 1001	(IIIIO	mauon	Sysic	1113 00	curity r	FISC		AR		06					FISC	AL YE	AR		07						
	ITEM/MANUFACTURES	₹	Е	PROC	PRIOR	DUE		04						CALE	NDAR	YEA	R		05							CALE	NDAF	YEA	R		06					CAL	ENDA	R YE	AR		07	
CODE		FY	R V	QTY	TO 1-Oct	AS OF 1-Oct	O C T	N 0 V	D E C	JAN	F E B	M A R	A P R	M A Y	N O L	J U L	A U G	S E P	O C T	N O V	DEC	JAN	F E B	M A R	A P R	M A Y	JUN	J U	A U G	S E P	O C T	N 0 V	D E C	J A N	F E B	M A R		M A Y	U	J U L	A U G	
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DA013	STE	05		908		908	3					Α																		303	303	302			₩		<u> </u>		₩	₩	\vdash	+
DA042	SV-21 (IWF)	05		297		297	,					Α																		50	50	50	50	50	47		 		+	+	+	+
DA042	SV-21 (IWF)	06		282		282	2																	Α															lacksquare		$ldsymbol{oxed}$	4
DA043	SV-21 (CRYPTO)	05	H	168		168	3					Α																		28	28	28	28	28	28		+		+	+-	+	十
DA043	SV-21 (CRYPTO)	06		159		159	9																	Α																	\blacksquare	2
DA009	SDS	04		1.103		1,103												184	184	184	184	184	183												+-		\vdash	1	+	+-	+	+
DA009		05		955		955				A								101			.0.	159		159	159	159	160												t		士	t
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DA003	LMD REPLACEMENT	05	H	120		120)			A						10	10	10	10	10	10	10	10	10	10	10	10								+	 	+-	+	+	+	+	+
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			PRODUCTION RA	TE		PROCUREMEN	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
DA013 - STE	L3 Comms Corp, New Jersey	*	*	*						
DA009 - SDS	Group Tech Corp, Florida	500	1,000	2,000						
DA003 - LMD REPLACEMENT	Dell Inc., Texas	**	**	**						

^{*} All services procure requirements thru NSA. Production rates are determined by NSA. ** DA003 is COTS equipment, there is no MSR, 1-8-5, MAX .

REMARKS:

ROD	UCTION SCHEDULE																																						DA Fel	TE bruary :	2006							
	RIATION/BUDGET ACTIVITY A2 COMMUNICATIONS & ELE	CTRONIC	EQUIPMEN	л												NOMEN SP (Infor			Security																						SUBI 52DA	HEAD N	0.					
			S	ACCE	BAL					FIS	CAL YE	AR		08						FI	SCAL Y			09								YEAR 1								FIS	CAL YE							
OST	ITEM/MANUFACTURER		E PRO										CALE	NDAR YE	AR		08				CA	LENDA			09							NDAR Y	EAR		10							ENDAR	YEAR		- 1	11		
ODE		FY	R QTY	TO 1-Oct	AS O		N O V	E C	J A N	E	M A R	A P R	A	J U	U	A S U E	C	N O V	E	J A N	F A	M A A P	A Y	U U	UL	A S U E	C	N O V	E /	J F A E	A R			J . U I	J A	S E P	C	N O V	E .	J F	M A R		M A Y	J U	n n	U	S C E C	
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A042	SV-21 (IWF)	06	282	4	7 23	15 47	47	47	47	47	7																																			#	#	#
043	SV-21 (CRYPTO)	06	159	2	8 13	1 28	28	28	28	28	3																																			#	#	#
044	SV Modernization (Shore)	08	1						A		_	+			_										1				-				_		_					_						+	-	+
044	SV Modernization (Shore)	09	2																	A															1 1													\neg
1044	SV Modernization (Shore)	10	1																										- 1	Ą															1			\neg
1044	SV Modernization (Shore)	11	11																																					4						_		
1044	SV Modernization (Afloat)	08	28		+				٨		_	_	-		_		-		-	_	_		-		7 7	7 7	7		-		_		_	_	_	-	-				-	+				-	-	-
A044	SV Modernization (Afloat)	09	36		+	_				_		_	+		-		_	-	-	A		_	_				+-			_	+		_		2 0	9	0				-	+				-+	-	+
A044	SV Modernization (Afloat)	10	28		+						+		+				+	1	-	^	_		+	1		-			-	Α.	+		-		9 9		-			-	-	+			7	7	7 7	7
044	SV Modernization (Afloat)	11	146																																					A.								
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			•	•	•	OCT	NOV	DEC	.IAN	FF	B MA	R APR	MAY	JUN .	JUI A	UG SEI	OCT	NOV	DEC	IAN F	FR M	AR API	R MAY	ILIN	IIII AI	IIG SE	P OCT	NOV D	DEC 14	NI CCI	NAR.	ΔPR	MAY I	IIN II	II All	G SEP	OCT	NOV	DEC 14	N FF	B MAR	ΔPR	MAY	JUN	JUIL	AUG 5	EP OC	CT NOC

			PRODUCTION RATI				PROCUREMENT LEADTIMES		1	
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure

^{*} All services procure requirements thru NSA. Production rates are determined by NSA. ** DA003 is COTS equipment, there is no MSR, 1-8-5, MAX.

REMARKS:

UNCLASSIFIED CLASSIFICATION

BUDGET ITEM	JUSTIFICAT	ION SHEET						DATE	Februa	ry 2006
APPROPRIATION/BUI OP,N - BA2 COMMUN	-	CTRONIC EQUIP	MENT		SUBHEAD 521V					
	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	то сомр	TOTAL	
QUANTITY										
COST	25.6	22.0	21.8	21.2	20.2	20.2	21.2	Continuing	Continuing	

This line supports the Cryptologic Carry-on Program (CCOP), the Signals Analysis Laboratory Program (SAL), the Navy Elint Program and the IW PROGRAM and the Fleet Information Operations Center (FIOC).

CRYPTOLOGIC CARRY-ON EQUIPMENT: This program procures state-of-the-art, Commercial Off-The-Shelf (COTS) signal acquisition equipment (hardware and software) in response to Combatant Command requirements for a quick-reaction surface, subsurface and airborne cryptologic carry-on capability. The equipment is procured according to the overall requirements detailed in the Shipboard Information Warfare (IW)/Cryptologic System (SIWCS) ORD (Serial Number: 537-06-99) of 9 Dec 99. Due to a continually changing threat environment, detailed requirements are dynamic and equipment procured varies by quantity and type. Equipment can be suites configured for many targets and tasking, or target specific subsystems that can either operate standalone within cryptologic spaces or as an add-on to existing equipment. Hardware procurement includes: receivers, recorders, Transportable-Radio Direction Finding (T-RDF) systems, tactical computers and related peripherals, antennas, Electronic-Warfare Support Measures (ESM) systems, and advanced signal and search equipment including spectrum analyzers, VXI chassis/cards and associated portable Special Intelligence communications equipment. CCOP equipment is installed in AN/SSQ-99 vans for deployment, and as an augment to cryptologic capabilities on subsurface, surface and air platforms. There are approximately 100 cryptologic capable surface ships in the current Navy inventory. Each of these ships are potential users of this carry-on equipment, depending on deployment schedules and the tempo of operations. In addition, there are numerous subsurface and air platforms that are also potential users. The temporary installation of equipment is coordinated through Fleet Electronic Support (FES) personnel. A primary product of this line is the Advanced Cryptologic Carry-on Exploitation System (ACCES). The outdated SSQ-80A(V) analog systems were converted to ACCES by modernizing them with VXI-based digital Signal Processing (DSP) capabilities and an open, modular architecture that provides flexibi

Exhibit P-40, Budget Item Justification

UNCLASSIFIED CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET		DATE	February 2006
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OPN - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	BLI 3501 CRYPTOLOGIC EQU	IPMENT	521V

GLOBAL SIGNAL ANALYSIS LABORATORY (GSAL): The GSAL (Commander Naval Security Group CLASSIC SENSEI) Program directly supports tactical commanders with tailored and responsive feedback from theater Information Warfare (IW) exploitation operations. Navy Signal Analysis Laboratories (SALs) are forward based signal analysis and processing centers for complex communications and electronic emissions. SALs require advanced signal processing equipment to keep pace with information technology and continually changing target sets. Funds are required to procure signal analysis equipment and information transfer backbone to perform shore-based IW exploitation of data resulting from mobile collection missions, and to aid real-time exploitation efforts. Signal analysis is performed at the labs using various advanced exploitation analog and digital processing devices. Signal information is passed back to the labs via electronic means and various magnetic media. The lab requires a high capacity Local Area Network (LAN) infrastructure tied in with the Global Command and Control System Maritime (GCCS-M) to properly conduct information and data exchange. GSAL signals analysis equipment exist at Naval Information Warfare Activity (NIWA), NSGA Rota, NSGA Yokosuka and NSGA Norfolk. Under Commander Naval Security Group transformational initiative titled GSAL realignment, GSAL signals analysis equipment is envisioned to support theater - level National Maritime operations at NSGA Kunia, NSGA Fort Gordon, and NSGA Rota, with forward digitization nodes (Smart Nodes) at Kadena Okinawa, JA, NSGA Bahrain, and Souda Bay Crete, Greece.

NAVY ELECTRONIC INTELLIGENCE (ELINT): To procure ten Small Ship Electronic Surveillance Measures (SSESM) Specific Emitter Identification/Unintentional Modulation On the Pulse (SEI/UMOP) systems that will allow for the monitoring and identification of commercial vessels of interests. Procure twenty-one Surface Electronic Support Capabilities Augmentation Packages (SECAP) a technology insertion approach, not system approach to current system capabilities. SECAP will provide tactical commanders with enhanced Electronic Support capabilities allowing for increased search, detection and data collection in support of a variety of surface ship requirements.

IW PROGRAMS: To procure equipment to support the augmentation of permanently installed cryptologic equipment with emergent cryptologic capabilities in support of operational and target developmental tasking.

MARITIME CRYPTOLOGIC DATABASE FACILITY (MCDF): The funding will provide for Advanced Database Replication for tactical intelligence networks, improved life cycle support to deployed systems, improved integration into Joint Shared Data Environments, and tighter integration of MIDB into the Maritime Cryptologic Architecture (MCA), and technology refresh at 23 Naval Security Group Activities.

Exhibit P-40, Budget Item Justification

COST ANALYSIS DATE

February 2006

APPROPRIATION ACTIVITY
OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT
BLI 3501 CRYPTOLOGIC EQUIPMENT
521V
TOTAL COST IN THOUSANDS OF DOLLARS

	2 GOMMONIONIONIONIONIO EQUI MENI				JK11 102001		OTAL CO	ST IN THOU	JSANDS		.ARS			
			PY	-			FY05			FY06			FY07	
COST	ELEMENT OF COST	ID CODE	TOTAL COST			QTY	UNIT	TOTAL COST	QTY	UNIT	TOTAL COST	QTY	UNIT	TOTAL COST
CODE	ELEMENT OF COST	CODE	- 0031			- WII	5031	C031	WII	0031	0031	QII.	5031	C031
1V555	PRODUCTION SUPPORT	Α						1,836			1,097			1,185
1V045	ACCES SYSTEMS	Α				VAR		17,669	VAR		14,887	VAR		16,431
	TOTAL SPAWAR CONTROL							19,505			15,984			17,616
	MAJOR CLAIMANCY CNSG													
1V042	SIGNAL ANALYSIS LAB (SAL)					VAR		985	VAR		300	VAR		302
	NAVY ELINT					VAR		4,086	VAR		5,196	VAR		1,363
	FLEET ELECTRONIC SUPPORT					VAR		0	VAR		175	VAR		0
	MARITIME CRYPTOLOGIC DATABASE FACILITY (MCDF)					VAR		1,052	VAR		332	VAR		380
	FLEET INFORMATION OPERATIONS CENTER											VAR		2,09
	TOTAL CNSG CONTROL							6,123			6,003			4,142
	GRAND TOTAL							25,628			21,987			21,758

REMARKS:

SAL - FY04 and beyond continues technology refresh and implements equipment acquisition in support of NSG wide SAL transformation from 5 SALs to 3 SALS.

DD FORM 2446, JUN 86 Exhibit P-5, Cost Analysis

CLASSIFICATION: UNCLASSIFIED

			BUDGET ITEM	JUSTIFICAT	TION SHEET					DATE:		
				P-40							FEBRUA	RY 2006
APPROPRIATION/B	BUDGET AC	CTIVITY	•				P-1 ITEM NO	MENCLATURE				
OTHER PROCURE	MENT, NAV	Υ										
BA-2 Communication	ns & Electro	nic Equ	ipment				Coast Guard	Equipment/BLI 3	620			
Program Element fo	or Code B I	tems:	•				Other Relate	ed Program Elen	nents			
		ID Code	FY 2004 & PRIOR	FY 2005	FY 2006	FY 2007	FY 2008	FY2009	FY2010	FY2011	To Complete	Total
QUANTITY												
COST (In Millions)		Α	12.4	7.7	31.0	41.1	28.9	28.6	29.1	15.5	CONT.	CONT.
SPARES COST (In Millions)					0.1	0.1	0.1	0.1	0.1	0.1		0.5

ITEM DESCRIPTION AND BUDGET JUSTIFICATION:

The Coast Guard Equipment line funds the Coast Guard requirement for Combat System Suites for new construction ships under the Coast Guard Integrated Deepwater System Replacement Project. Under an inter-service agreement (delineated in OPNAVINST 4000.79A), DON provides the combat, detection, and electronic systems required for the Coast Guard to integrate with the Navy in times of war and conflict. Ship Construction and installation costs are funded by the Department of Homeland Security.

The Combat System Suite procured must complement and integrate with Navy Combat Systems. The suite is an appropriate balance of equipment to ensure the Coast Guard is prepared to accomplish its assigned Naval Warfare Tasks in concert with U.S. Navy units. The Combat Systems Suite will be aligned with Naval shipbuilding programs to support commonality among the two Services' systems and meet National Fleet objectives. The complete suite of equipment and its ancillaries provide for detection, control and engagement to meet Coast Guard mission needs.

The Deepwater Combat Suites will include the following:

Detection Systems - Provides radar, Electro-Optical Sensor, and EW systems to search, detect, and track surface and air contacts. Provides situation awareness with which to make tactical decision, and allows for timely defensive evasion/avoidance action.

Control Systems - Provides multi-sensor integration, embedded doctrine, improved decision making efficiency, and critical function availability. Also included is system capability to identify friendly forces.

Engagement - Provides decoy systems to engage surface and air threats.

P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 86 PAGE NO. 1

UNCLASSIFIED

DD Form 2454, JUN 86

CLASSIFICATION: UNCLASSIFIED

	WEAPONS SY	STEM COST	ANALYSIS										DATE:	
ADDDOD	RIATION/BUDGET ACTIVITY	P-5				D 4 ITEM N	OMENICI ATUE	E/CUDUEAD					FEBRUA	RY 2006
	rocurement, Navy					P-1 II EM N	OMENCLATUR	(E/SUBHEAD					SUBHEAD:	
	OMMUNICATIONS & ELECTRON	CEQ				COAST G	UARD EQUI	PMENT BLI:	362000					A2CG
													l.	
			TOTAL COS	T IN THOUSAL	NDS OF DOLL	ARS								
COST	ELEMENT OF COST	ID					FY 2005			FY 2006			FY 2007	
CODE		Code		1	ı	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
						Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	I otal Cost
	DEEP WATER Combat Suites													
CG001	Detection Systems													
	SPQ 9B Radar	Α						600	1	6,880	6,880	2	7,270	14,540
	SPQ 9B TUP								1	2,210			ŕ	,
										,	,			
CG002	Combat System Integration													
	IFF AIMS	Α						1,230	2	1,200	2,400	1	1,550	1,550
								·		,	,		ŕ	,
CG003	Detection Systems													
	Decoys MK 53	Α						400	2	1,130	2,260	4	2,143	8,572
										,	,		, -	- / -
CG004	Detection Systems													
	SLQ 32	Α						3,186	2	6,019	12,037	2	5,810	11,620
								-,		-,-	,		-,-	,
CG005	Detection Systems													
	MK 46 Mod 1 Optical Sighting	Α						2,280	2	2,340	4,680	1	3,850	3,850
								,		,	,		,	,
CG006	Combat System Integration	Α									495			1,001
	-													
								7,696			30,962			41,133

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

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CLASSIFICATION: **UNCLASSIFIED**BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

			•	•		. ,			FEBRUARY:	2006
B. APPROPRIATION/I	BUDGET ACTI	VITY			C. P-1 ITEN	NOMENCLATURE			SUBHEAD	
Other Procurement, Nav	vy									
BA-2: COMMUNICATION	ONS & ELECTE	RONIC EQ	UIPMENT		COAST GUA	RD EQUIPMENT BLI:	362000			A2CG
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
FY 2005										l
MK 46 Mod 1 OSS	1	1,170	NAVSEA			Kollmorgen	08/05	06/06	Y	NA
MK 53 Decoys	1	2,280	NAVSEA			Various	08/05	08/05	Υ	NA
FY 2006										
AN/SPQ-9B Radar	1	6,880	NAVSEA			Northrop Grumman	08/06	06/07	Υ	NA
AN/SPQ-9B TUP	1	2,210	NAVSEA			Northrop Grumman	08/06	06/07	Y	NA
MK 53 Decoys	2	1,130	NAVSEA			Various	08/06	06/07	Υ	NA
AIMS IFF	2	1,200	NAVSEA			NAVAIR	08/06	06/07	Υ	NA
MK 46 Mod 1 OSS	2	2,340	NAVSEA			Kollmorgen	08/06	06/07	Υ	NA
SLQ 32	2	6,020	NAVSEA			Various	08/06	08/06	Υ	NA
FY 2007										
AN/SPQ-9B Radar	2	7,270	NAVSEA			Northrop Grumman	TBD	TBD	Υ	NA
MK 53 Decoys	4	2,143	NAVSEA			Various	TBD	TBD	Υ	NA
AIMS IFF	1	1,550	NAVSEA			NAVAIR	TBD	TBD	Υ	NA
MK 46 Mod 1 OSS	1	3,850	NAVSEA			Various	TBD	TBD	Υ	NA
SLQ 32	2	5,810	NAVSEA			Various	TBD	TBD	Υ	NA
D DEMVBKS										

Weapon System

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST CLASSIFICATION:

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UNCLASSIFIED

DATE:

CLASSIFICATION: UNCLASSIFIED Feb 2006

CLASSIFICATION: UNCLASSIF	ILD	/																		reb zuc	סנ	
P3A		INDIVIDUAL	_ MC	DDIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	SP	Q 9B/MK 46	MOI	D 1	_TYI	PE MOD	IFIC	ATION:	IMF	PROVE (CAPA	ABILITY	_ MC	DIFICA	OIT	N TITLE:	DE	TECTIO	N S	YSTEMS	_	
DESCRIPTION/JUSTIFICATION:																						
Provides radar, Electro-Optical Sensor , a timely defensive evasion/avoidance action		V systems to	sea	rch, dete	ct, ar	nd track	surfa	ace and a	air co	ntacts.	Prov	ides situa	ation	awaren	ess v	vith whic	h to	make ta	actica	al decision	, and a	llows for
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	ENT MILEST	ONE	S:											_							
	<u>FY</u> QTY	2004 & Prior	•		<u>F</u> QTY	Y 2005 \$	<u>F</u> QTY	Y 2006 * \$	<u>F</u> QTY	Y 2007 \$	FY QT\	2008 (\$	<u>FY</u> QTY	<u>2009</u> \$		Y 2010 \$	<u>Ε</u> ΩΤΥ	<u>Y 2011</u> r \$	QΤΥ	<u>TC</u> Y \$	QTY	TOTAL ′\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
SPQ 9B RADAR	0	0.0					1	9.1	2	14.5	1	8.5	1	7.0	1	7.0	1	7.0				52.1
MK 46 MOD 1 OSS	0	0.0			1	2.2	2	4.7	1	3.9	1	4.9	1	2.2	1	2.2	1	2.2				22.1
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
PRODUCTION SUPPORT														,								0.0

0.0

0.0

0.0

0.0

74.2

0.0

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2.2 3 13.8 3 18.4 2 13.4 2

9.2

2 9.2 2 9.2

OTHER (ILS/TEST SUPPORT)

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

OTHER (CSS)

INSTALL COST

CLASSIFICATION: UNCLASSIFIED Feb 2006

РЗА		INDIVIDUAL	_ MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	IFF	AIMS	TYF	PE MOD	IFIC	ATION:	•	SYSTE	M IN	TEGRAT	ION		МС	DIFICA	TIOI	N TITLE:	<u>CO</u>	MBAT II	NTE	GRATION	SYSTE	ΞM
DESCRIPTION/JUSTIFICATION:																						
Provides multi-sensor integration, embedd	ed do	ctrine, impro	ved o	decision	mak	ing effic	ency	, and cri	tical f	function	avail	ability. <i>A</i>	Also i	ncluded	is sy	stem ca	pabi	lity to ide	entify	friendly f	orces.	
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	ENT MILEST	ONE	S:											_							
	ΓV	2004 9 Deio			_	V 200E	_	V 2006	_	V 2007	ΓV	2000	ΓV	2000	_	V 2040	_	V 2011		TO	_	TOTAL
	QTY	2004 & Prior \$			QTY	Y 2005 \$	QTY	Y 2006 \$	QTY	<u>Y 2007</u> \$	QTY	<u>2008</u> \$	QTY	2009 \$	QT\	Y 2010 \$	QT\	Y 2011 (\$	QΤ\	TC * \$	QTY	ΓΟΤΑL \$
FINANCIAL PLAN (IN MILLIONS)	T	Ψ			T	Ψ	T	Ψ	T	Ψ	I	Ψ	T	Ψ	Q I	Ψ	I	l v	T	l v		Ψ
RDT&E																						0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
IFF AIMS	0				1	1.2	2	2.4	1	1.6	1	1.6	1	1.4	1	1.4	1	1.2				10.7
																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
PRODUCTION SUPPORT																						0.0
OTHER (ILS/TEST SUPPORT)																						0.0
OTHER (CSS)																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST																					0	0.0
TOTAL PROCUREMENT	0				1	1.2	2	2.4	1	1.6	1	1.6	1	1.4	1	1.4	1	1.2		0.0		10.7

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Installation is funded by DHS, Coast Guard Deepwater Program.

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P3A	II	IDIVIDUAL I	MODIF	ICATIO	N																	
MODELS OF SYSTEM AFFECTED:	D	ecoys MK 53	<u>3</u> T	ГҮРЕ М	IODIF	FICATIO	ON _	Improve	e Cap	ability	_		МО	DIFICA	OIT	N TITLE:	DE	COY Sy	stem	S		
DESCRIPTION/JUSTIFICATION:																						
Provides decoy systems to engage surface	e and ai	r threats.																				
DEVELOPMENT STATUS/MAJOR DEVEL	OPMEN	IT MILESTO	NES:		_										_							•
					_		_		_						_						_	
	<u>FY 20</u> QTY	004 & Prior				<u>2005</u> \$	QTY	<u>2006</u>	_		FY 2 QTY			2009 \$		<u>Y 2010</u> \$		<u>/ 2011</u> \$	ΩΤ \	<u>TC</u> \$	QTY	OTAL
FINANCIAL PLAN (IN MILLIONS)	QIY	\$			QTY	Ф	QIY	\$	UIY	Ф	Q I Y	Ф	ועו	Ф	Q I Y	Ф	QTY	Ф	QTY	Þ	TUT	\$
THANOIAE I EAN (IN WILLIONO)																						
RDT&E																					1 1	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	0				1	2.5	2	2.2	4	8.5	1	4.5	1	5.0	1	5.0	1	5.1				29.1
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
PRODUCTION SUPPORT																						0.0
OTHER (ILS/TEST SUPPORT)																						0.0
OTHER (CSS)																					\perp	0.0
INTERIM CONTRACTOR SUPPORT																					\perp	0.0
INSTALL COST																					0	0.0
TOTAL PROCUREMENT	0				1	2.5	2	2.2	4	8.5	1	4.5	1	5.0	1	5.0	1	5.1		0.0		29.1

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			PROCUREMEN M JUSTIFICA	•		(DOD EXHIB	IT P-40)	
BUDGET ACTIVTY BA-2 COMMUNICATIONS AN	ID ELECTRONIC	CS EQUIPMEN	IT				MENCLATURE HER DRUG INT	
QUANTITY		FY 05	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11
COST (in millions)		0.770	0.000	0.000	0.000	0.000	0.000	0.000

This line provides funding for the Drug Interdiction and Counter-Drug. Funding provided for the procurement of an Automated Pipetting System. This system supports automated urine analysis at the Drug Laboratory. This system will take a tray of urine bottles and pipette a small amount of each bottle into their individual vials for analysis. This automated system should eliminate cross contamination of the specimens.

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CLASSIFICATION

APPROP	RIATION		PROG	RAM COST	(DOD Exhibit P-5)									
OTHER P	ROCUREMENT, NAVY													
BUDGET	ACTIVITY		P-1 IT	EM NOMENO	CLATUR	RE				SUBHEA	D NO.			
BA-2 - CC	MMUNICATIONS AND													
ELECTRO	NICS EQUIPMENT		OTHE	R DRUG INT		3820								
			TOTA	L COST IN T	HOUSA	NDS OF I	DOLLA	RS						
						FY 2005		FY 2006		FY 2007				
COST		IDENT				TOTAL		TOTAL		TOTAL				
CODE	ELEMENT OF COST	CODE		-	QTY	COST	QTY	COST	QTY	COST				
\/A004	ALITO DIDETTINIO OVO					770			•					
YA001	AUTO PIPETTING SYS				1	770	0	0	0	0				
						770								
						770		ď		U				
	ı		P-1 S	HOPP. LIST	PAG	SE NO.								
			1	07										

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BUDGET PROCUREMEN	NT HISTO	RY AN	D PLANNI	NG EXHIBIT (P-5A)				A. DATE 、	January 2006	
B. APPROPRIATION/BUDGET AC	TIVITY				C. P-1 ITEM NOM		SUBHEAD			
OTHER PROCUREMENT	Γ, NAVY			OMMUNICATIONS A				_		
	1		ELECTR	ONICS EQUIPMENT		G INTERDICTION	EQUIPMENT	DATE OF	38 SPECS	20 DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
YA 001 AUTO PIPETTING	G SYS									
FY 05	1	770	NMLC	Sep-05	RCP/FP	UNKNOWN	UNKNOWN	UNKNOWN	YES	
<u> </u>				D 1 CHODD LICT	5.05.10					

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